

I N .

# THE PERFUMERY DEPARTMENT.

THE brightest and most frequented part of a store is generally given over to the Perfumery case, for nothing lends itself more readily to tasteful effects in grouping and arrangement than dainty scent bottles, quaint and graceful in design and execution. A fine perfume is a poem. It brightens the fancy, and brings half-forgotten scenes into new life. Of course skill is necessary in selecting an attractive perfume stock. Consumers are becoming accustomed to the highest degree of excellence in all branches, for competition has incited manufacturers to the most strenuous efforts towards perfection. Quality then is the most important consideration. Keep only the best in stock. It pays. In choosing an assortment of odors, the prevailing fondness for flowers should be taken into consideration. The magnificent Flower Shows, so largely attended, point conclusively to the fact that general taste inclines in this direction. Next to the reality comes the exquisite shadow, the flower-fragrance, which the perfumer uses all his art to catch and retain. Flower odors first, then White Rose, Violet, White Lilac, Carnation Pink, Heliotrope, Ylang Ylang, Blue Bells, and Trailing Arbutus, all are good, and true to their names. Then come the flower-combinations. Their very names bring pleasant recollection, of sunlit gardens, rain-washed hill-sides, and the soft breath of spring. Who does not know Jockey Club, New-mown Hay, Ess. Bouquet and Millefleurs?



Facsimile of the 1-oz. size.

*We shall be glad to give our prompt attention to your Orders. Catalogue and New Supplement sent upon application.*

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**SOLUBLE, PEARL, OR SUGAR-COATED PILLS.**  
Pills made to Private Recipes, either Coated or Uncoated.

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**EFFERVESCENT CITRATE OF MAGNESIA.**

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READ TWO OF LAST WEEK'S LETTERS.

---

4 Fore Street, St. Austell,

January 20, 1891.

Dear Sirs,

I beg to state that the CONCENTRATED LIQUORS had from you some time ago have given every satisfaction, and I consider that both time and money can be saved by their use, whilst the Infusions and Tinctures prepared from them must of necessity be of more constant strength than those prepared by any other method.

Yours truly,

J. BICE.

89-90 Treville Street, Plymouth,

January 19, 1891.

Dear Sirs,

We write to say that your CONCENTRATED LIQUORS meet with our entire approval, and produce Tinctures bright in colour and uniform, and save a great deal of time in preparing the same. We can strongly recommend them to our fellow chemists.

Yours faithfully,

LOYE & CO.

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OF THE  
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EXTRA QUALITY  
SOLUBLE ESSENCE

JAMAICA  
GINGER

A PERFECT  
GINGER ESSENCE  
See The Lancet July 3<sup>rd</sup> 1886

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FRUIT  
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VEGETABLE  
COLOURS  
FREE FROM ANILINES

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COLOURINGS  
FOR ALL LIQUIDS.

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OF  
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AMERICAN  
FOAM SYRUP,  
FOR GIVING A CLOSE  
CREAMY HEAD TO  
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## THE DIGESTIVE TABLE SALT.

**A Condiment, not a Medicine. Keeps Good in any Climate.**

“**PEPSALIA**” substituted for ordinary Table Salt (which it closely resembles in taste and appearance), in similar quantities, digests the food with which it is eaten with ease and certainty.

“**PEPSALIA**” *absolutely effects digestion* and restores dyspeptics to a condition of health and comfort. To prevent Indigestion is practically to cure it; but the morbid phenomena are apt to recur unless advantage is taken of the solvent powers of **Pepsalia** on food to secure perfect digestion.

“**PEPSALIA**” is recommended by many Eminent Medical Men, *The Lancet*, *The British Medical Journal*, &c. Its great digestive activity has been formally certified to by Dr. HEHNER, the well-known Analyst

M.D., &c., Cavendish Square, London, W., writes July, 1890:—

“During the short time I have been trying your ‘**PEPSALIA**’ upon myself I have acquired the greatest benefit from it. An indigestion which had been slowly growing, resulting in flatulence, discomfort, and sleepiness after meals, general lassitude and depression, has, with all these disagreeable symptoms, vanished as by a charm since I commenced merely substituting ‘**PEPSALIA**’ for ordinary table salt with my dinner.”

*The Lancet*, May 10, 1890, says:—“In ‘**PEPSALIA**’ we have a convenient means of aiding digestion.”

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In Bottles, 1s. and 2s. each.



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# “Pumiline.”

TRADE MARK.

FOR USE IN { **RHEUMATISM, GOUT, BRONCHITIS, THROAT AND CHEST AFFECTIONS & SKIN DISEASE.**

“**Pumiline**” Essence.—The most effectual Inhalant for all Lung and Throat Affections, Bronchitis, Influenza, &c. Gives immediate relief. In Bottles 1s. 6d. and 2s. 6d. each.

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“**Pumiline**” Dry Inhaler.—Most effective and convenient Pocket Inhaler, for use in Throat or Lung Troubles. Complete, with small Vial of “**Pumiline**” Essence, 1s. 6d.

“**Pumiline**” Jujubes.—For Sore Throat, Cough, Hoarseness, &c., they give immediate relief. In Boxes 1s. 1½d. and 2s. each.

“**Pumiline**” Extract.—Used in the Bath is specially recommended in all Chest and Throat Affections, and par-

ticularly for Weak and Sickly Children. It is highly invigorating and restorative, and should be used by Anæmic Women and Convalescents. In Bottles 1s. each.

“**Pumiline**” Liniment.—Specially beneficial for use in Chronic Rheumatism, Gout, Lumbago, Sciatica, &c. In Bottles 1s. 1½d. and 2s. 9d. each.

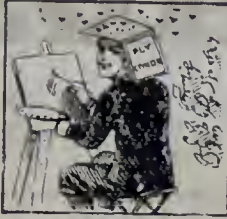
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“**Pumiline**” Soap.—Is a carefully-neutralised and superfatted Soap. The fragrant “**Pumiline**” contained in this Soap stimulates the skin to a healthful functional activity so necessary in this changeable and damp climate. In Tablets 6d. and 1s. each.

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Over 1,000 Medical Testimonials and Notices in all the Leading Medical Journals.

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# THE TIME MAY COME

when politics will mean all that is noble  
and good ; when a small boy will break an

apple in two and give his little sister the bigger half ; when a loafer will  
work, and a stray dog won't bite: but



# THE DAY WILL NEVER DAWN

when a Fly can tickle a drowsy man's nose without making him jump and  
wonder why his wife don't speculate a penny and buy a

## "FLY CEMETERY."



Free from poison. Annual sale millions. Protected by patents.  
Will catch more flies in a day than the old-fashioned papers do  
in a week. Specially prepared for export. Shipping agents  
should send for samples.

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## HAS THE LARGEST SALE OF ANY SMELLING BOTTLE IN THE WORLD.



It is the most popular shilling article in the market, being well got up and  
largely advertised, commands a rapid sale, bears a large profit, and gives  
universal satisfaction.



Counter prescribers can recommend it with confidence for cold in the  
head, nervous headache, and faintness. Sent out in 1/3 dozen cases.  
Wholesale from all the Patent Medicine Depôts.



Show Cards and Handbills from MACKENZIE'S CURE DEPOT, READING, ENGLAND.

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The **CHEMIST AND DRUGGIST**, alluding to our New Show Room, says:—"Here one is struck with the business-like way in which the wants of the omnipotent 'baby' are catered for."—*Chemist and Druggist*, No. 556, page 822.



The "Eclipse," 6d. 76 dozen.



The "Eclipse," 6d.  
Seamed, 3/6 dozen.  
Seamless, 3/9 "



The "Baby's Friend,"  
3/10 dozen.



The "Eclipse," 4d.  
3/- dozen.



Soother,  
with Ribbon, 3d.  
1/3 dozen.



The "Whistling  
Fascinator," 6d.  
3/- dozen.

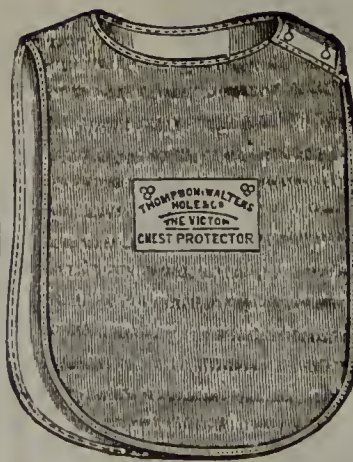
The above are a few of the Teething Pads we are now supplying. They are made of the best materials, and have been found to have an excellent effect in quieting noisy infants. They cannot possibly do harm, and are very saleable when freely displayed.

**THOMPSON, WALTERS, HOLE & CO., LIMITED, CURTAIN ROAD, E.C.**

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THE BITING EAST WIND of our British Spring-time will make these a public necessity for some months to come.

BOYERS CANNOT DO BETTER THAN REQUIRE THEIR SUPPLIES DIRECT FROM THE ACTUAL MANUFACTURERS.



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<b>SINGLE</b> (Best Scarlet or White Felt).	
5/9, 7/4, 9/3, 10/3, 13/6, 15/6, 16/-	
<b>DO.</b> (Natural Wool).	
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<b>DO.</b> (Natural Wool).	
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We make all kinds of Chest Protectors on the premises, and are consequently in a position to meet any competition.

**THOMPSON, WALTERS, HOLE & CO., LIMITED,**  
**CURTAIN ROAD, LONDON, E.C.**

# Did the Dragon Really Exist?

THIS is a question which would be looked upon by most people as not worth the asking, it having been universally agreed that the Dragon existed only in myth. If, however, we examine the matter a little more closely we cannot fail to be struck with the fact that, about the time of man's advent upon the earth, there really existed a strange creature of Dragon-like appearance. The Dragon of mythology may, perhaps, be represented thus. The design has been worked out from the impression upon the British Five-shilling Piece, and is, probably, a good illustration of what the creature is generally imagined to be; but should it be incorrect the blame must rest with the authorities at the Mint. Whatever its exact form may have been, man for however, it is admitted that the animal fought fiercely with and generally poisoned the air around it. There seems but little doubt that it was a very unpleasant antagonist to engage with in mortal combat, and among many different peoples we find legends extolling the prowess of the knights who fought with and vanquished the Dragons.



Let us now inquire if there is any possible foundation for these myths. Taking it as practically proved (at least, so the geologists say) that man has existed for innumerable ages on the earth, it is far from impossible that some of our early progenitors may have actually been contemporaneous with one of the larger species of Pterodactyles, the fossil remains of which show that they may have measured 16 feet across the outstretched wings. The diagram shows a Pterodactyle hurling itself upon its prey. The difference between the two illustrations may be easily accounted for by the fact that the first has its origin in the fertile imagination of poets, and the second in the more prosaic, but also more accurate, fossil remains of the monster itself. There would, therefore, appear to be some sort of foundation for such tales as "St. George and the Dragon." Whether, however, the Dragon actually existed or not, we think we may safely assert that the "Dragon" brand Menthol is a useful and profitable reality of the latter part of the nineteenth century, and for which we have the honour to append prices:—



MENTHOL CONES, "DRAGON BRAND"				
No. 1.	Boxwood case, Barrel Shape, on fancy cards containing 1 dozen	per doz.	19	No. 11. Boxwood, Acorn Shape .. .. . per doz. 5-
" 2a.	Boxwood case, Pedestal Shape, 1 doz. in cardboard box	"	19	" 12. " " on foot .. .. . 5-
" 2b.	" " (larger)	"	3-	" 12a. " Pedestal .. .. . 5-
" 3.	" Acorn Shape on Pedestal .. .. .	"	3-	" 13. " Barrel .. in glass top box .. .. . 5-
" 4.	" Crown Shape .. .. .	"	33	Nos. 10, 11, 12, and 13 can be had in glass top boxes of 1 doz. assorted .. 5-
" 4a.	" " .. .. .	"	110	No. 14. Polished Wood Case, Pedestal Shape, 1 doz. in cardboard box .. 14
" 5.	Vegetable Ivory, Acorn Shape, 1 doz. in cardboard box	"	39	" 15. Penny size, in pink cardboard box .. .. . per gross 7-
" 6.	" Castle .. .. .	"	4-	" 15a. Barrel shape, Penny size .. .. . 56
" 7.	Nickel Screw Cap Bottle, small size .. .. .	"	2-	" 16. Glass Shade, on Boxwood Pedestal .. .. . per doz. 16
" 8.	" large size .. .. .	"	23	" 17. Boxwood Pedestal, with Metal Shades, assorted colours .. 23
" 9.	Glass Shade, with China Foot, small size .. .. .	"	29	Handsome Glass top Counter Cases, containing 4 doz. assorted
" 12.	" largest size cone, in glass-top box .. .. .	"	5-	in case .. .. . each 106
				Handsome Glass top Counter Cases, filled with dummies, presented free with first order of £2 value.

**THOMPSON, WALTERS, HOLE & CO., LIMITED,**  
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## Manufacturers and Druggists' Sundriesmen.

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has taken place this week, and anyone connected with the Trade not receiving a copy, and desirous of, can have same on application.

This List will be found to contain most of the goods and appliances in general use, with novelties and prices to date, which will be revised and added to in each quarterly issue.

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Rd. No. 118583.



### PRICES.

1	1½	2	3	4	6	8	10	12	16	20 oz.
10/0	10/0	10/0	11/6	11/6	12/9	12/9	20/6	20/6	23/6	30/0 Green, per grs.
10/9	10/9	11/6	12/6	13/0	15/6	15/6	24/0	24/0	27/0	34/6 White, ..

### IN CRATES (about 6 Gross Assorted).

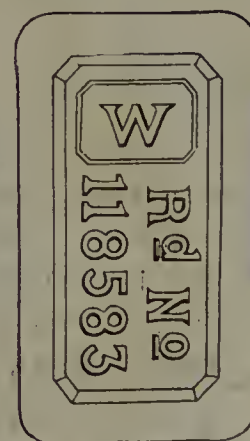
Not less than 1 gross of a size.

1	1½	2	3	4	6	8	10	12	16	20 oz.
9/6	9/6	9/6	10/9	10/9	11/9	11/9	19/0	19/0	21/6	27/0 Green, per grs.
10/3	10/3	11/0	12/0	12/6	14/9	14/9	23/0	23/0	28/0	33/6 White, ..

CRATES AND CARRIAGE FREE.

Casks for EXPORT are charged, but delivered F.O.B.

NAME PLATES EXTRA, AT USUAL RATES.



FACSIMILE OF  
BOTTOM OF BOTTLE.

This Bottle is made with rounded corners without altering its flat surfaces, which not only adds to its appearance but reduces breakage to a minimum, ensuring accurate capacity, simplifying labelling, and producing a perfect appearance when wrapped.

ANY OF THE ABOVE BOTTLES ARE SUPPLIED WITH FLAT, GLOBE, OR CUT GLOBE STOPPERS.

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SPECIAL QUOTATIONS TO SHIPPERS AND THE WHOLESALE TRADE.

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# VINOLIA PREPARATIONS.

(FOR VINOLIA SOAP SEE SUPPLEMENT, PAGE 212.)



For Delicate Skins, Toilet, Nursery, Roughness, Weeping Surfaces, &c.

"'Vinolia' Powder is an impalpable rose dusting powder, soluble, of remarkable fineness, and well adapted for the nursery, toilet, 'weeping' surfaces, and sweating feet."—*British Medical Journal*.

"Superseding the old toilet powders, which are apt to cause acne spots on the face by blocking up the pores of the skin."—*Lady's Pictorial*.

1/9, 3/6 & 6 - PER BOX, IN PINK, WHITE & CREAM.

For Itching, Chaps, Chilblains, Eczema, Rash, &c.

"For acne spots on the face and particularly for Eczema, it is undoubtedly efficacious, frequently healing eruptions and removing pimples in a few days. It relieves itching at once"—*The Baby*.

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19, 36 & 6 - PER BOX.



A dealkalised, dehydrated superfatted bay-rum Soap. Yields a most soothing substantial lather, which does not dull the razor or irritate the skin.

*Illustrated Medical News* reports: "It lathers well, and altogether is most agreeable. For those who are interested in the subject of Soap, we add 'try 'VINOLIA' Soap."

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2. Afternoon Class for Minor Students, 3 to 5 p.m. daily.
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4. Once-a-week „ „ 3 to 10 p.m. on Wednesdays, doing all the subjects.
5. Afternoon „ for Preliminary Students, 3 to 5 p.m. two days weekly.
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The classes are so arranged that students can enter at any time and for any period.

The Next Full Course of Lectures will commence on Monday, April 6, and those desirous of joining this course are requested to send in their names as early as possible.

Syllabus, with full particulars of all the Classes, Time-tables, Fees, Method of Teaching, Pass Lists, Testimonials, &c, sent post free on application to the Principal.

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President—THE LORD EBURY. Chairman—MAJOR WM. VAUGHAN MORGAN.

Contains 90 Beds, and, being entirely supported by Voluntary Contributions, Donations and Annual Subscriptions ARE EARNESTLY SOLICITED. The Hospital is always open to the inspection of Visitors, and Clinical Instruction is given in the Wards and Out-patient Department to Medical Students and Practitioners, affording a valuable opportunity of acquiring a knowledge of Homœopathic Medicine. It possesses a valuable Library of Homœopathic Publications, which Medical Men are invited to study. They are also invited to visit the Dispensary. The In-patients number over 800 annually; the Out-patients over 10,000 annually. The number of Patients treated since the inauguration in 1849 exceeds 250,000. The Hospital has a staff of 50 Nurses for Ward Nursing and Nursing Invalids at their residences. But, in the Wards, in the Domestic Departments, in the arrangements for Trained Nurses, in the Out-patient Department, the want of accommodation is inadequate. There is not room enough for the increasing number of Patients, and the Board have long known that the Hospital building is not adapted to modern medical and surgical requirements, and they appeal for sufficient funds to build a NEW, ENLARGED, and COMPLETE HOSPITAL. The amount required will be £30,000, of which the sum of £24,000 has already been promised, and an earnest appeal is now made for the further amount of £6,000 still requisite.

Cheques and Money Orders should be crossed "Prescott & Co."

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Vide "CHEMIST AND DRUGGIST," April 16, 1887.

Notes by "HEDER."

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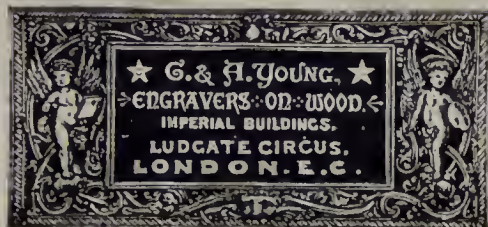
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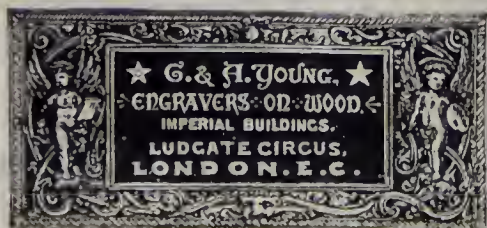
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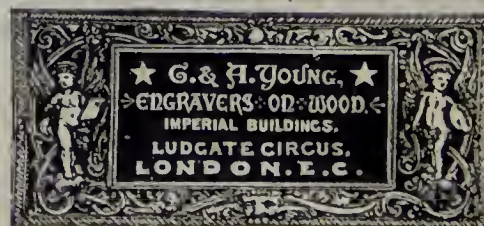
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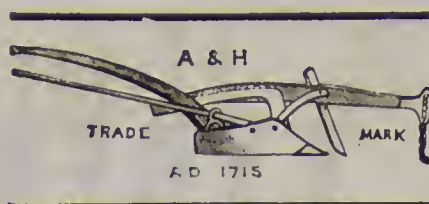
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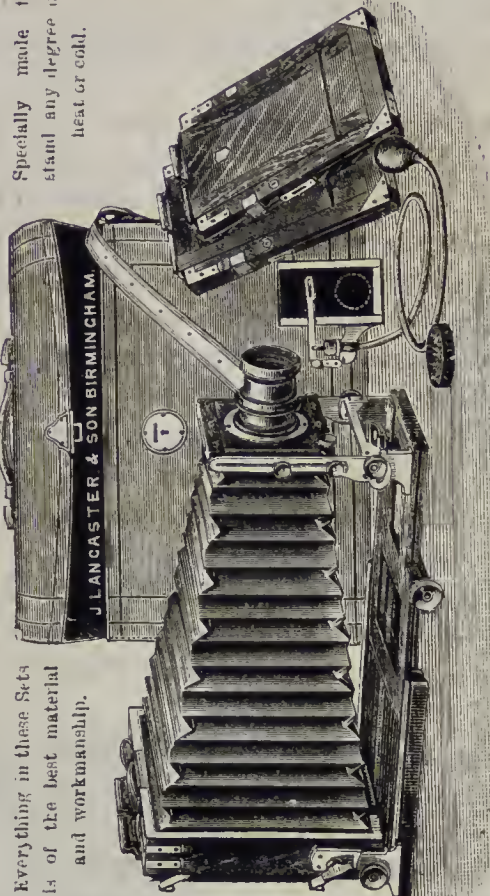
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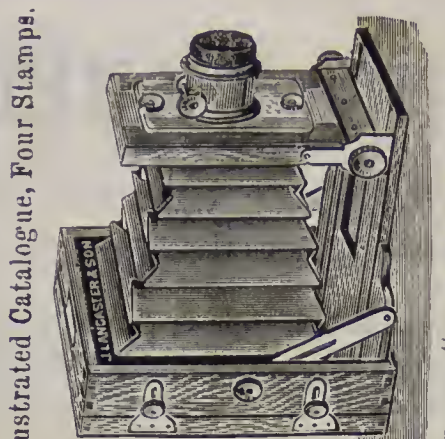
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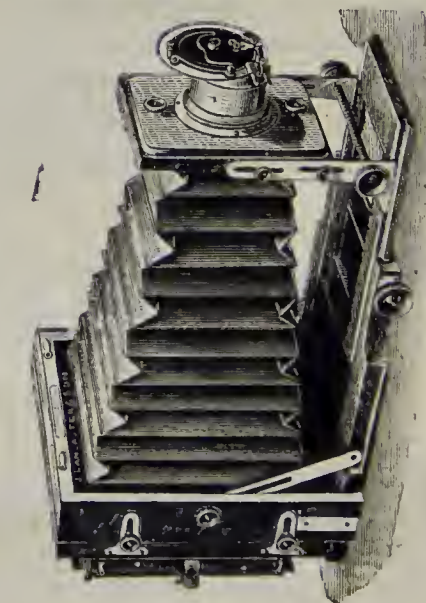
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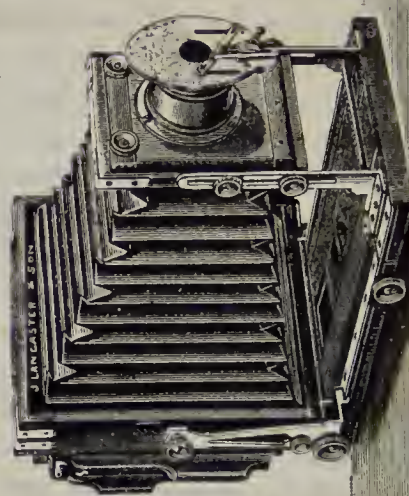
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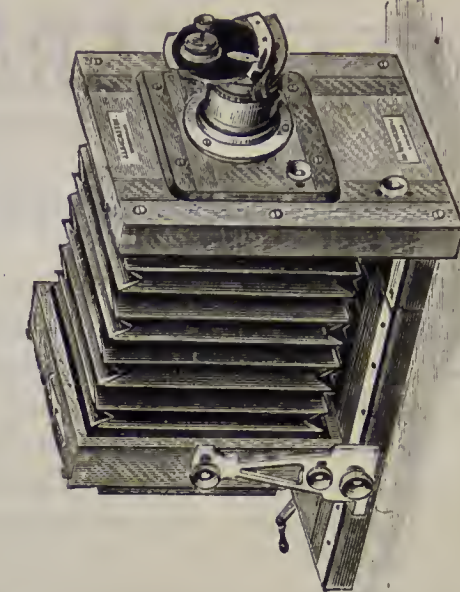


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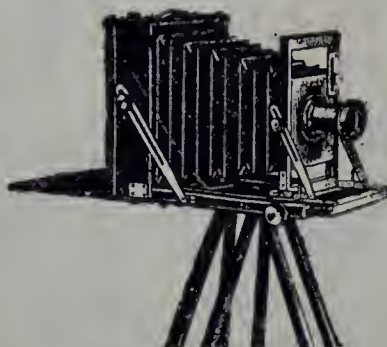
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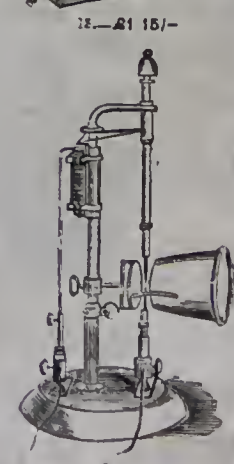
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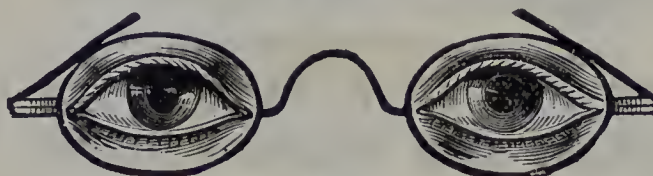
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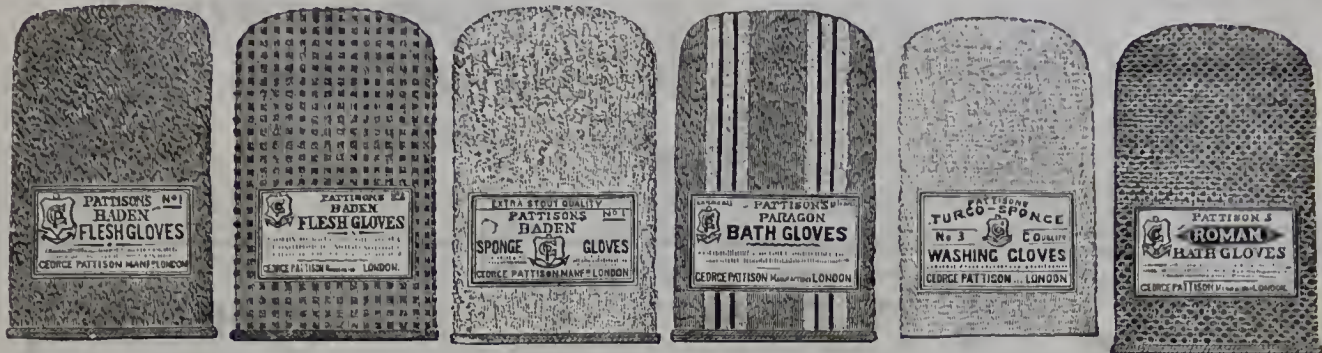
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**NOVELTIES  
FOR  
CHEMISTS.**

Filled with Best Benzo-  
line or Paraffin Oil will  
burn one hour.

Exact height, 1½ inches.  
Per doz., 9s.  
(1 dozen in a box.)



**A USEFUL COMPANION**

FOR

**TRAVELLERS, DOCTORS, REPORTERS,  
ENGINEERS, AND OTHERS.**

**95 FARRINGDON STREET, LONDON.**

**R C TREATT**

Dunster House Mincing Lane

**LONDON**

IMPORTER OF

**Musk Civet Ambergris Attar - of - Rose**

**ESSENTIAL OILS**



Wholesale  
and  
Export  
only.

APPLICATION

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**PATRONISED BY HER MAJESTY.**

**BARBER'S ORIGINAL  
CRIMSON MARKING INK,**

*WHICH IS CHANGED BY HEAT TO A JET BLACK.*

Put up for Retail Sale in 6d., 1s., 2s., 2s. 6d., and 5s. Bottles

ALSO

**BARBER'S CONCENTRATED LIQUID COCHINEAL**

*FOR COLOURING JELLIES CUSTARDS, ETC.*

Put up in 6d. and 1s. Bottles.

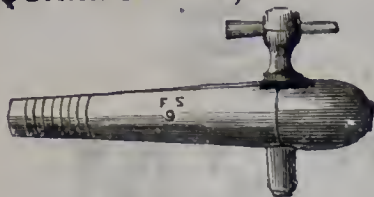
**ALSO BARBER'S ARTIFICIAL IVORY FOR FILLING DECAYED TEETH,**  
1/- per Packet.

MANUFACTURED ONLY BY THE PROPRIETORS—

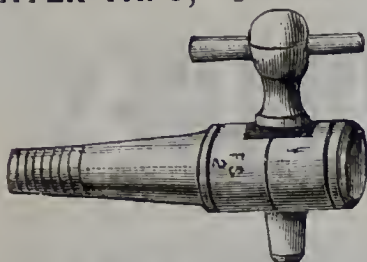
**G. BARBER & CO., CLUB MOOR, LIVERPOOL.**

Can be obtained through any of the Wholesale Firms in Great Britain, or from FELTON, GRIMWADE & CO., Melbourne; ELLIOT BROS., Sydney and Brisbane; KEMPTHORNE, PROSSER & CO., Dunedin and Auckland; FELTON, GRIMWADE & CO., Wellington; or direct from the Manufacturers—  
G. BARBER & CO., Club Moor, Liverpool, England.



**SQUARE CORKS, Nos. 4 to 9.***Handsome Show Cards Free.*

No. 1	..	4 1/2 inches	..	10/1 per dozen.
" 2	..	5	..	1/2 "
" 3	..	5 1/2	..	1 1/2 "
" 4	..	6	..	1 1/4 "
" 5	..	6 1/2	..	1 1/2 "
" 6	..	7	..	1 1/8 "
" 7	..	7 1/2	..	1 1/10 "
" 8	..	8	..	2/2 "

**WATER TAPS, Square Corks.***Handsome Show Cards Free.*

No. 1	..	8 1/2 inches	..	5/ per dozen.
" 2	..	8	..	3/ "
" 3	..	7 1/2	..	3/6 "
" 4	..	7	..	2/ "
" 5	..	6 1/2	..	2/ "

No. 0.—Extra large size, 12/ per dozen.

If you do not stock Square Cork Taps made by us, please order small quantity and compare for quality with any you may buy elsewhere.

THE

**GENUINE "DOVER" EGG BEATER**

There are many imitations, but no equal; the "Dover" is the cheapest and best beater in the world. 1,800 doz. special price.

Boxes of 1 doz., 5.6. Special price for quantity.

**MATCHES**

The Genuine Safety Match is the "Steamer." We stock these and fifty other brands of Matches. Full list to Merchants and Shippers now ready.

**GLUE**

Upwards of 100 tons of Glues and Gelatines always in Stock.

Good Strong Glue	..	..	25/ per cwt.
Better	..	28, 32, 35, and 40/	"
Very Fine	..	45, 50, 55, and 60/	"
Gelatine	..	45, 50, 55, and 60/	"

.. Proprietors of the Cross Swords Medal Glue.

5 tons Broken French Glue, 24/.

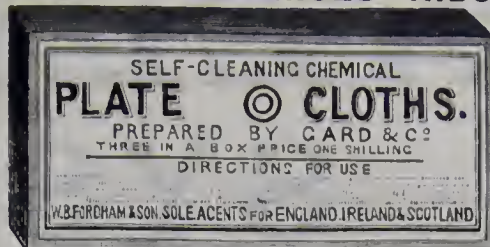
**CARD'S HOUSEHOLD AIDS.**

Plate Cloths (3 in a box) .. 1/- size, 7/6 doz.  
Brass and Steel .. 2/- " 15 "  
Jewel .. 1/- " 7 6 "  
5 per cent. off 1 gross, assorted.

**SIZE AND GLUE POWDER.****CANNON'S IS THE BEST.**

In 4, 8, 16 oz.:  
2, 4, and 7 lb.;

28, 56, and 112 lb. Cases.

A Large Stock of each quality in London.

In three qualities. No. 1, 62; No. 2, 50; No. 3, 44, per cwt.

**THE "SAFE AND EASY" OYSTER OPENER**

An oyster can be opened by a lady or any inexperienced person as easily as a nut can be cracked.

This patented article nips off a portion of the edge of the shell, making a cavity, into which the knife fits, and the oyster is readily opened.

In boxes of 1 doz., 11/6.



1d. size, 8/; 2d. size, 15/2 gross.

**ENAMEL BRUSHES.**

No. 44.—Flat Hog Hair Brushes. 1-in., 1 1/2-in., and 2-in.—

1	..	50.	..	Bevelled	..	3/5, 5/6, and 7/6
"	..	55.	..	"	..	4/5, 6/6, and 8/6
"	..	66.	..	"	..	7/10, 10/10, and 13/6

FOREIGN RED BOUND, ORDINARY QUALITY, WHITE BRISTLES.



Nos.	1	2	3	4	5	6	7	8	9	10
Per dozen	..	6/	7/	9/	11/	12/	14/	16/	18/	20/
Nos.	11	12	13	14	15	16	17	18	19	20
Per dozen	..	3/8	4/3	5/	5/8	6/9	8/6	9/6	10/3	12/13/6

Super quality also kept in stock.

ALTERATIONS FOR FEBRUARY.—Reduction in price of Toilet Paper, Brown Paper, Broom Handles, Clothes Pegs, and Demon Beetle Traps.

**SWEEPERS.**

A Clean Sweep by using any of these.

Ewbank	..	..	11/ and 12/ each
Gold Medal	..	..	11/6 "
Albert Goshen	..	..	7 6 "
Champion	..	..	7/ "

**ENAMEL.**

IN TINS, 9/ per doz.; if 1 gross, 8 9;  
5 gross, 8/6; 10 gross, 8 3.

IN TINLETS, 3/6 per doz.

For BATHS, 1/6 size, 11/; 3/ size,  
22/ per doz.

5 per cent. discount for cash.



Cases of 100 large bars	..	..	25/
" 60	..	..	15/
Boxes of 48 small	..	..	6 3

**W. B. FORDHAM & SONS, LIM.,**

36 to 40 YORK ROAD,

KING'S CROSS,

**LONDON, N.**

TELEGRAMS—"FORDHAMS LONDON."

TELEPHONE 7514.

ESTABLISHED 1825.



A Copy of this Supplement is inserted in every number issued of "The Chemist & Druggist."

# The Chemist and Druggist

## SUPPLEMENT

Businesses Wanted.  
Businesses for Disposal.  
Premises to Let.  
Auction Sales.

SATURDAY, JAN. 31, 1891.

Partnerships.  
Situations Vacant.  
Situations Wanted.  
Miscellaneous.

### CHEMISTS' TRANSFERS.

## MESSRS. ORRIDGE & CO.

32 LUDGATE HILL, E.C.

## CHEMISTS' TRANSFER AGENTS

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—LONDON, W.—First-class Business; handsome corner shop; established 50 years; ail first-class Dispensing; returns £1,200 yearly; £1,500 required. N.B.—London reference must be furnished as a preliminary.

2.—LONDON, W.—First class Dispensing and Retail; very handsome shop; returns about £1,000 yearly; particulars will be furnished privately to gentleman prepared to invest about £1,000 to £1,200 in cash.

3.—LONDON, N.W.—Dispensing and Light Retail, with well-fitted Shop; returns £700 yearly; profitable business; situate in main road and capable of further development; price about £600.

4.—LONDON, N.W.—Dispensing, Prescribing, and Retail; situate in a main road; returns £500 yearly; well-fitted shop and good stock; good 6-roomed house and garden; price about £400.

5.—LONDON, N.W.—Handsomely fitted shop; capital position; returns £400 yearly (a good nucleus); large house on lease; vendor will accept any reasonable offer; retiring from business.

6.—LONDON.—Large business centre; returns £950; good position for pushing trade; old-established business; full investigation will be permitted; price £700.

7.—LONDON, E.—Retail, Dispensing, and Prescribing Business; no heavy trade; established 18 years; single-fronted handsome shop; returns £950; very profitable; 8-roomed house; price £850 cash.

8.—LONDON, S.E.—Small Business (branch); returns about £350; well-fitted shop and good stock; rent low; on lease; price about £250.

9.—LONDON (City).—Dispensing and Prescribing Business; central position; well fitted shop; returns nearly £600 yearly; increases steadily; price about one year's purchase.

10.—LONDON.—Death vacancy; old-established Business situate in close proximity to Regent's Park; returns average between £800 and £900; handsome shop; good house; immediate sale; price about £650.

11.—SOUTH COAST.—High-class Dispensing Business; returns between £850 and £900; the business is suited to a gentleman possessing the Major qualification; references required as preliminary.

12.—SOUTH OF ENGLAND.—Wholesale and Retail Business; returns between £5,000 and £6,000 yearly; the incomer must be a Major man, and prepared to invest about £5,000; good opportunity for two good business men.

13.—SOUTH COAST.—Fashionable town; good-class Dispensing Business; returns £700 yearly; well-fitted shop, and good house; price about £500.

14.—KENT.—Retail and Dispensing Business; established many years; returns last year £800; profits good; good-sized house; held on lease; rent low; price about £700.

15.—KENT.—Fashionable locality; good-class Retail and Dispensing, with Post-office; returns nearly £700 yearly; full prices for Dispensing; handsome double fronted shop; good house on lease; price £600.

16.—DEVON.—Large town; capital position for select Family Business; returns about £400 yearly; profits large; good house and garden; handsome shop; no immediate opposition; price £350.

17.—LANCASHIRE.—Manufacturing town; good nucleus of business, well situated, and offering a capital opportunity for a pushing man; present returns about £7 per week; valuation of stock and fixtures only required.

18.—JERSEY.—Small Business, pleasantly situated; no qualification required; returns £200; good 8-roomed house and garden; price about £200.

19.—ESSEX.—Capital central position, with old-established Business; returns £1,650; easily extended; good premises and garden; on lease at moderate rental; small premium and valuation; about £1,100 to £1,200 in all.

20.—PACIFIC COAST TOWN.—English colony; very profitable Business; combined Drug Establishment and Fancy Trade; either Drug business or both may be purchased; about £500 each required full particulars on application.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country; particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the special attention of a London agent.

SPECIAL NOTICE.—TO PRINCIPALS AND ASSISTANTS.

MESSRS. ORRIDGE & Co. Register Vacancies for Situations FREE OF CHARGE.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

# F. J. BRETT

## VALUER AND TRANSFER AGENT,

### 60 St. Stephen's Road, Leicester.

As a Valuer F. J. BRETT is well known throughout the Kingdom to both the Wholesale and Retail Trade, as in nearly every town he has either valued or sold Businesses, and will have pleasure in forwarding references from numerous clients for whom he has done business.

**STOCK-TAKING UNNECESSARY.**—Stock-taking is always dreaded by Chemists, and with a competent Valuer is not necessary.

F. J. BRETT is prepared to estimate or to value entire stocks as they stand with little or no inconvenience to ordinary business, and has repeatedly done so with entire satisfaction to those adopting this mode.

No buyer is wise who blindly buys a Business at a "lump sum" without having the stock and fixtures valued.

Special attention to Mineral-water Plants and all the auxiliaries of the Drug Trade.

Businesses thoroughly investigated for buyers.

**TWENTY YEARS'** experience as a Valuer in all classes of trade from the fashionable West-end Dispensing Business to the General Mixed Country Retail.

**VENDORS** who entrust their Businesses for sale to F. J. BRETT will only have them placed before suitable buyers, and not have them sent indiscriminately to everybody who applies for them.

**VENDORS** for Businesses as follows can at once be supplied with buyers:—High-class Retail and Dispensing returns from £1,500 to £2,000; ditto, about £1,100 returns; General Retail, town or country, returning £700 to £800, or £800 to £1,000. Also, wanted in good market town, average Retail with some Dispensing, returns £1,500 to £1,800.

**FIRE INSURANCE.**—F. J. BRETT, having acted for the principal Fire Insurance Companies, is enabled to obtain better compensation for Chemists than they can get themselves. It is highly necessary in cases of fires that Chemists should have their interests protected by having an experienced Valuer to act on their behalf.

£3,500 Returns.—General Mixed trade, with local Wholesale, in prosperous town, one hour from London; scholastic advantages; good house and garden; lease, at valuation of stock and fixtures, about £900.

£1,500 Returns.—LIVERPOOL (Near).—Good-class Retail and Dispensing, with Wines and Spirits; price £1,000.

£1,650 Returns.—HULL.—Old-established Retail with good Prescribing; price £1,300.

£700 Returns.—YORKS.—Light Retail and Prescribing; net profit £250; cash price £600.

£400 Returns.—LEICESTER.—Prettily-fitted shop, fair house; rent £25; price £320, or valuation.

£450 Returns.—BIRMINGHAM.—Prescribing and Retail; rent £24; price £175, or valuation.

£700 Returns.—LONDON, N.W.—Dispensing and Retail; 1,100 new Prescriptions per annum; good house; price £550.

£800 Returns.—LEICESTERSHIRE.—Good-class Retail, in market town; excellent house, lawn, garden, &c., &c.; price about £700.

£1,400 Returns.—MIDLANDS.—Retail and Dispensing, in good-class town; price £1,100.

£1,100 Returns.—NOTTS.—Good market town; General, Retail, Prescribing, and Local Wholesale; price £650.

£300 Returns.—LIVERPOOL.—Branch; small Retail and Prescribing; suit good Prescriber; will be sold a bargain for £75.

£700 Returns.—LANCS.—Retail and Dispensing, with Post Office worth £30 per annum; price £500.

£530 Returns.—SUSSEX.—Dispensing and Retail; price £450.

£700 Returns.—KENT.—Light Retail, Dispensing, and Prescribing; price £450.

£450 Returns.—CORNWALL.—Retail, Prescribing, and Dispensing; price £250.

£800 Returns.—GLOUCESTERSHIRE.—Dispensing and Retail; no heavy trade; good house and garden; price £650.

£500 Returns.—DEVON.—General Retail; price £400.

£400 Returns.—LANCOS.—Rent £32; price £300, or valuation.

£1,100 Returns.—LINCOLNSHIRE.—Good Country Business; price £700.

£700 Returns.—DURHAM.—Profitable Mixed Retail; good house; price £500.

£600 Returns.—LONDON, S.W.—Good-class Retail, with Post Office worth £70 per annum; price £400.

£330 Returns.—LONDON SUBURB.—Can be doubled; vendor advanced in years; price £230.

£300 Returns.—CARDIFF.—Branch; with personal attention can be doubled; price £250; excellent house and valuable lease.

£750 Returns.—BIRMINGHAM.—General Light Retail, Prescribing, and Dispensing; price £400; part can remain.

£400 Returns.—S.E.—Very profitable Retail, with Post Office worth £100 per annum; price £475.

£400 Returns.—OXFORD.—Dispensing Retail; rent covered; price £330.

£500 Returns.—WARWICKSHIRE.—Dispensing and good-class Retail price £550, value of stock and fixtures.

£350 Returns.—WORCESTER.—Very profitable Retail; rent £20; price £200.

£500 Returns.—WILTS.—Dispensing, Prescribing, and Retail; price £350.

£500 Returns.—STAFFS.—Prescribing and Light Retail; price £250.

£560 Returns.—STAFFS.—Prescribing and General Retail; price £550 or valuation.

£850 Returns.—KENT.—Retail, Prescribing, and Dispensing, with excellent Proprietaries; price £700.

And others too numerous to mention in this short list.

Buyers and Vendors can at all times rely upon being well advised by applying to

# F. J. BRETT

## VALUER,

### 60 St. Stephen's Road, Leicester.

# MESSRS. BERDOE & CO.

CHEMISTS' TRANSFER AGENTS & VALUERS,  
30 JEWRY STREET, ALDGATE, E.C.

Established 1870.

VALUATIONS and TRANSFERS conducted in any part of the United Kingdom. Twenty years' practical experience. Terms, which are strictly moderate, may be had on application.

## NO CHARGE TO PURCHASERS.

**MIDLANDS.**—First-class Retail and Dispensing Business; returns nearly £1,500, with £600 net profit; good house; same hands many years; retiring; will bear strictest investigation; price £1,300; most desirable investment; worth special attention.

**WORCESTERSHIRE.** Small market town; Retail, Dispensing, and Prescribing; returns £800; net profit £350; rent low; good house and garden; price £500; every investigation and introduction.

**YORKSHIRE.**—Good-class Retail and Dispensing Business, with good Proprietary articles; returns £700, steadily increasing; low rent; good house; handsome mahogany fittings; well stocked; price £475, or offer.

**HASTINGS.**—Retail and Dispensing Business; returns £550; net profit £250; full prices for everything; rent £35; same hands many years; shop is well fitted and stocked; price £400.

**LEICESTERSHIRE.**—Good market town; Retail, Dispensing, and Prescribing; returns £800; capable of being considerably increased; good profits; large house, garden, and greenhouse; price £700, or offer.

**KENT.**—Market town; Retail, Dispensing, and Prescribing, with large sale of Proprietary articles; returns £850; net profit £375; low rent, good house; same hands many years; price £700, or offer.

**WARWICKSHIRE.**—Good-class Retail and Dispensing Business; same hands 34 years; returns £500; very profitable, and scope for increase; good house and garden; well fitted shop; price £350.

**LONDON, W.**—Retail and Dispensing Business; capable of considerable increase; returns £735; very profitable; good house; large stock; price £450; genuine concern; scope for development.

**LONDON, N.W.**—Retail and Dispensing; returns £7 weekly under junior assistant; good house and garden; price £175.

**LONDON, W.**—Retail and Prescribing Business; returns £6 weekly as branch; well fitted and stocked; good house; price £120.

**PLYMOUTH and WATERLOO VILLE.**—Tenders for these Businesses received up to February 7. Full particulars in another column.

Particulars of any of the above sent free on application.

Other Businesses, Town and Country, from £100 to £5,000.

Messrs. Berdoe & Co., 30 Jewry St., Aldgate, London, E.C.

## BUSINESSES FOR DISPOSAL.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

Our WEEKLY SUPPLEMENT is sent to 11,000 Chemists and Druggists in business; is given to any Assistant who applies for it personally; and is posted to anyone connected with the Trade who sends a stamped addressed wrapper for it. Advertisements for this SUPPLEMENT can be received on Friday morning, first post, though it is requested that they may be sent in as early in the week as possible.

**S.W. DISTRICT.**—Genuine Light Retail; rapidly-increasing neighbourhood; proprietor going into medical; returns, under manager, £450; could be doubled; no agents. "Felix," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**BUSY** main road, S.E.; rent £60, let off £40, more could be let; long lease; well-fitted shop and 9 rooms; taking under assistant £255, easily increased; price for goodwill, lease, fittings, and about £175 well-selected stock, £200. A., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**DEATH VACANCY.**—For disposal, owing to the death of the Proprietor, an old established Prescribing and Retail Business in a popular watering-place, including valuable proprietary medicines, recipes, and registered trade-mark. Apply, "Rehsif," Messrs. Ayrton & Saunders, Wholesale Druggists, Liverpool.

**LONDON, S.E.**—Good-class Retail, Dispensing, and Prescribing Business in main road; returns £500, increasing; price £350, or a reasonable offer entertained; sole reason for disposing, proprietor taking a larger business. Address, "Pharmacist," care of Meggison & Co, Miles Lane, Upper Thames Street, E.C.

**DEATH VACANCY.**—Genuine Prescribing, Dispensing, and Retail Business in the market town and fashionable watering-place Great Yarmouth; first-class position, centre of market-place; valuable proprietary medicines and recipes; excellent fittings and appliances; well and judiciously stocked; takings (increasing) about £700; good house, valuable lease; no agents. Apply, Mrs. Tutton, Market Pharmacy, Great Yarmouth.

# Mr. G. B. CROCKER, Trade Valuer, Transfer Agent, & Accountant, 15 WALBROOK, E.C.

**HAMPSHIRE.**—An old-established good-class Country Retail and Dispensing; returns £1,350; moderate rent; very long lease; price £1,000.

**KENT.** Good-class Family and Dispensing trade in best part of busy town; returns £850; price £750 handsome pharmacy.

**SURREY.**—Retail and Dispensing trade; many years in same hands; returns £1,200; price £1,000; satisfactory reasons for selling.

**NORTH OF ENGLAND.**—Good-class Country Retail and Dispensing; returns £1,200; small premium for goodwill and valuation.

**HOME COUNTY.**—Retail and Dispensing trade; unopposed; returns £750; price about £550; part may remain, payable by instalments.

**LONDON, N.**—Death vacancy; Retail, Dispensing, and Prescribing; returns £900; agency pays rent; price open to offer.

**LONDON, S.**—Family and Dispensing trade; returns £1,100; profits above the average; price £950; well recommended.

**LONDON, N.E.**—Marketing spot; Prescribing trade; returns £9 weekly; price £350.

Valuations for Probate or Transfer conducted in any part of the United Kingdom. Terms on application.

## BUSINESSES FOR DISPOSAL—Continued.

**KENT.**—Good-class Retail and Dispensing Business; returns £840; price £700; many years in present hands; very handsomely fitted Pharmacy in best part of the town; held at a low rent on a long lease. Address, for particulars, "Morpbine," care of Messrs. Ifearon, Squire & Francis, 33 Southwark Street, S.E.

**CHEMIST'S.**—For sale, valuable lease, goodwill, appropriate fixtures, plant, and stock of a Chemist's and Dentist's Business; established over 30 years; in a populous town South of England; leading business thoroughfare; ill-health sole cause for disposal; price £700. Every information given by James M. Richardson, 33 Dudley Road, Tunbridge Wells.

**SOUTH Coast.**—Unopposed Retail and Dispensing Business in pleasant health resort; returns £550 and increasing; no heavy trade; price £475; very nice pharmacy and an exceptionally good house, with large garden well stocked with fruit trees, &c. Address, "Tereb," care of Mr. Stone, 5 Devonshire Road, Forest Hill, S.E.

**A GENUINE** Retail, Prescribing, and Dispensing Business in a good-class suburb of London, with splendid opening for a good Dental practice; small house, with conservatory and garden; three entrances; rent £35; established 36 years; several good proprietary articles; good position. Apply, first by letter, "Stintim," Sotbom's Library, Balham, London.

**FOR** disposal in country town, a Retail Chemist and Druggist's Business, with good stand in principal street in centre of large agricultural business; shop fitted up in exceptionally good style, and well stocked; good opportunity for one acquainted with agricultural trade. Apply, "Sulphur," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**£250.**—**HAMPSHIRE.**—Special opportunity, never met again, town being doubled in size; Retail and Prescribing Business; greatly neglected; returns £8 to £10 weekly, doubled in few months' time; good house; rent £30; immediate sale desired; price £250. F. D., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**DISPENSARY** for Sale; £180 receipts for last year; situated in the E. district, in a well-populated neighbourhood; has been much neglected, and could be rapidly increased by a young, energetic man; £70 would be accepted for furniture, fittings, &c., to effect an immediate sale, or would be open to a reasonable offer. Address, Dr. Simpson, 85 Victoria Park Road, South Hackney, London N.E.

**PLYMOUTH.**—Messrs. Berdoe & Co. are instructed to sell by tender, as a going concern, the lease, goodwill, stock, and fixtures of the Chemist's Business situated at No. 55 Coburg Street, Plymouth; same hands 13 years; owner leaving the trade; handsome mahogany fittings by Trebble; good stock; excellent nine-roomed house, in perfect repair; bath-room; garden, with fruit trees; private and back entrances; returns are £400; no patent or cutting trade; unopposed position; can be greatly increased; net profit 40 per cent.; offering an excellent opportunity to those desirous of purchasing a business at a reasonable price, with plenty of scope for increasing the returns; a very low reserve has been fixed. Tenders received up to Saturday, February 7. Full particulars and tender-forms on application to Messrs. Berdoe, 30 Jewry Street, Aldgate, E.C.

**WATERLOO VILLE, HANTS.**—Messrs. Berdoe & Co. are instructed to sell by tender, as a going concern, the lease, goodwill, stock, and fixtures of the unopposed Chemist's Business, situated at Waterloo Ville (3 miles from Cosham and 4 miles from Havant); returning over £800 yearly, and steadily increasing; shop is well fitted, and stock in excellent condition; exceptional good house; nine rooms; hot and cold water all over premises; bath-room; garden, with fruit trees; Waterloo Ville is fast growing, is much frequented by invalids, near the sea, and very healthy; offering good opportunity to energetic man, or those seeking a genuine business where health is a consideration; a low reserve has been fixed. Tenders received up to Saturday, February 7. Full particulars and tender-form on application to Messrs. Berdoe, 30 Jewry Street, Aldgate, E.C.

**IMMEDIATE.**—A profitable Branch in a Prescribing neighbourhood, now under very indifferent management, owner having another business; would sell for £50 (urgent); well-arranged shop, six-roomed house; rent only £35; trial allowed. 31 Cotteulm Road, Holloway.

**PRESCRIBING** and Light Retail, in busy Birmingham suburb; returns £400, fully half profit, good prices, no patents; excellent house; rare opening for a pushing man, as vendor away half the day; with whole attention would immensely improve; price £300; vendor entering medical profession. "Medicus," Wyleys, Coventry.

**LONDON SUBURB** (South-east).—Rapidly-increasing Retail, Prescribing and Dispensing Business (with very profitable small Wholesale) and Branch; splendid position; densely-populated district with large works; wide scope for increase; total returns £1,013; together £610; separately £610 and £75; valuable lease. "Gamma," 132 Borough, London.

## BUSINESSES WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

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**SMALL** Country Retail, with Post Office, wanted. Particulars, in strict confidence, to 86/30, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**, a genuine Dispensing and Prescribing Retail Business, in or near London, returning £500 or £600. Send full particulars to R. D. Cash, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**CHEMIST'S** Business.—Wanted, to purchase, in London or good suburb, a thoroughly sound concern, with good Prescribing business attached; up to £3,000 would be given. Address, S. Parkhurst, 44 Thornfield Road, Uxbridge Road, W.

**WANTED** to purchase, a good-class Country Business within about 100 miles from London and returning about £750 to £1,000 a fair price, cash down, will be paid to secure a suitable business. Send full particulars, in confidence, to "Minor," care of Mr. Bell, 74 Ralston Road, Herne Hill, London, S.E.

**ADVERTISER** is desirous of purchasing for his son a genuine Retail Chemist's Business, either in London or country within 120 miles of London, returning £600 to £1,000; cash ready for a suitable business. Particulars as to price, rent, returns, &c., to W. J. A., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

## APPRENTICESHIPS.

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**OUTDOOR** Apprentice wanted. Apply, Duck & Son, Chemists, St. John's Square, Cardiff.

**OWLES & SON**, Pharmaceutical Chemists, 9 Hall Quay, Yarmouth, have a vacancy for a well-educated youth as Apprentice; good Family and Dispensing trade; no heavy; a premium required. For terms apply to above address.

**WANTED**, youth as Apprentice; passed Preliminary or its equivalent; every opportunity given of acquiring a thorough knowledge of the business; premium required. J. W. Hardman, Chemist, 25 Hyde Park Road, Leeds.

**APPRENTICE.**—A vacancy occurs in a good-class Dispensing business in Clifton for an Apprentice; must have passed Preliminary; every facility to get a thorough knowledge of the business; comfortable home. Apply to H. T. Griffiths, 10 Victoria Street.

**WILLING** Youth, about 16, required as Apprentice in Light Retail Dispensing business; main thoroughfare, near Regent's Park; good opportunity for acquiring practical knowledge of the trade; time allowed for study; comfortable home; moderate premium. Apply, by letter (sending full particulars), to T. T. Nicholson, 125 Hampstead Road, N.W.

## PARTNERSHIPS.

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**PARTNERSHIP.**—A practical Pharmacist, having good Analytical qualifications and over 15 years' sound business experience, is open to negotiate for a Partnership in a Wholesale or Manufacturing firm. "Chemicus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**AGRICULTURAL** Chemical and Sanitary Trade.—An active Partner, having connection with importers in South Africa, South America, and Australasia, wanted, with £1,000 to £2,000 capital; good opening. 89/24, Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

## FOR SALE.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**FITTINGS** of a Chemist's Shop for Sale: 12 feet run of mahogany drawers with glass labels and glass knobs, lockers under, and shelving with cornice, price 15l. 10s.; plate-glass fronted counter, 12 feet long, 12l. 10s.; dispensing-screen and counter, 6 feet long, 13l.; also desk and case, counter-case, toothbrush-case, 300 shop-rounds and other fittings, all equal to new, for sale together or separate, great bargains. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

**FOR SALE.**—180 new gold-labelled rounds and jars, £8 5s.; 6-foot dispensing-screen, secondhand, with mirror centre and marble slab, cases with mirror backs, £8; 6-foot ditto, secondhand, £4; 12-foot range mahogany-fronted drawers, with bevelled glass labels and crystal knobs, £9; 12-foot ditto, polished pine ditto, gold labels and crystal knobs, £6 12s.; dispensing-case, good secondhand, with mirror back, 3 ft. 9 in. long, 55s.; 4 8 gallon carboys, 20s. each; 6 2-gallon ditto, 6s. each; 24 3-lb. blue jars, 2s. each; 24 best pink, 4-lb., 5s. each; sloping plate-glass case, 36 by 18, 35s.; 6 foot dispensing-screen, mirror centre, £6. R. Tomlinson & Sons, Medical Fitters, Valuers, &c., Bond Street, Birmingham.

## TO LET.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**To Let**, House and Shop, Elswick Road, Newcastle; suitable for Chemist; rent moderate. Apply, J. O. Hop, builder, &c., 64 Crown Street, Newcastle-on-Tyne.

**CHEMIST** and Druggist (Retail and Dispensing).—A shut-up Chemist Shop to let at low rent, with use of fixtures. Address, by letter, to C. T., care of Messrs. Willows, Francis and Butler, 101 High Holborn, W.C.

**CHEMIST'S SHOP**; noble corner premises; expensively fitted for this trade; good house over; most commanding situation; main road, W.; rent only £80 per annum; £50 per annum could be easily let off. C. Rawley Cross, Auctioneer, Uxbridge Road Station, London, W. Telegraphic address: "Antithesis London." Telephone No. 8,669.

## SITUATIONS OPEN.

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**A QUALIFIED** Assistant required, aged about 25. Apply to Messrs. Sarter & Co., 119 Mount Street, Grosvenor Square.

**JUNIOR**; indoors; good Counterman and Dispenser. Apply, stating full particulars, to Finch & Co., City Drug Stores Bath.

**ASSISTANT** wanted, not under 21; state references, height, and salary required, indoors. W. Botham, 19 Haymarket, Sheffield.

**AN** Assistant (indoors) for a General Retail and Prescribing trade; must be a reliable Dispenser; salary £30. G. Wilcox, 11 Prospect Row, Birmingham.

**TRAVELLERS** wanted, to solicit orders for a well-advertised preparation for the skin. Address, "Ivorine," care of Mr. Pubst, Wood Street, Bath.

**WHOLESALE.**—Wanted, an active Man, about 25; Wet and Dry; state terms and experience. O., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**, a Junior Assistant or Improver. Apply, stating age, height, and salary required, and giving reference, to J. H. Adams & Co., Chemists, Stoke-upon-Trent.

**A QUALIFIED** Assistant to open and take management of a Mixed Country Retail, Agricultural, and Dispensing. Apply, in first instance, W. C., 6 Sheep Street, Skipton, Yorks.

**MANAGER**, qualified, for Branch; must be pushing and gentlemanly, good Dispenser, and must have good references; single; outdoors. X. Y. Z., care of Evans, Gadd & Co., Exeter.

**WANTED**, a Junior Clerk, for invoices, in Wholesale Drug house; one accustomed to similar employment necessary. Apply to Messrs. Gale & Co., 15 Bouverie Street, Fleet Street, E.C.

**WANTED**, immediately, smart, obliging Assistant to manage small business near Liverpool. Apply, stating age, experience, and salary (indoors), to Mrs. Laidlaw, The Crescent, West Kirby.

**WANTED**, qualified man to take charge of Dispensing and sale of poisons, &c.; young and active man; a permanency; abstainer preferred; so Sunday duty. Ince, Dudley, Worcs.

**WANTED**, an energetic Assistant; aged about 25; must be well up in Dispensing and General Retail, and thoroughly recommended. Apply, inclosing photo, to Walter Gregory, Wellington, Somerset.

**WANTED**, immediately, by a Surgeon in practice in the North, a Dispenser and Bookkeeper. Apply, stating usual particulars and salary required, to B. S., care of Evans, Sons & Co., Hanover Street, Liverpool.

**STEELE & MARSH**, Bath, require a Junior. One accustomed to good-class Dispensing and Retail. Apply, inclosing carte (to be returned), stating age, height, and salary required. Good reference indispensable.

**DRUG** Traveller required to represent a well established house in the country; good salary offered to the right man. Apply, with full particulars, in confidence, to "Camphor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**, immediately, a qualified man to manage a Seaside Business in the North (possibly with a view to purchase or otherwise). Address, stating age, experience and salary required (outdoors), Z. Y., Ayrton & Saunders, Liverpool.

**JUNIOR**, or Second Assistant required; must be well up in Dispensing, and accustomed to a good-class trade. If a personal call is impossible, send carte, with usual particulars, and salary required, to Sangster, Eton Avenue, Swiss Cottage, N.W.

**WANTED**, for two or three months, an Assistant; good Dispenser; about 24 years of age; able to prescribe and take charge in absence of principal. Apply, stating age, height, salary required, with reference, to E. Wootton, 76 High Street, Margate.

**DISPENSER** wanted, immediately, for a firm of Surgeons. State age, salary required, if abstainer and disengaged, with copies of recent testimonials to H. Inkster, care of Hearnden, Atkins & Hearnden, Sutton, Surrey. Applications not answered in three days, declined.

**AN ASSISTANT** in February, aged about 21; passed Prelim.; some Dispensing ability and good references necessary; every other Sunday evening. Apply, with usual particulars (carte to be returned), to John C. Clarke, Pharmaceutical Chemist, Hare Street, Woolwich.

**QUALIFIED** Assistant wanted at once (single, 25 to 30); country town in South of England; indoors; comfortable home; energetic; good Prescriber and Salesman, also Extractor, with knowledge of Dentistry preferred. Apply to S. R. C., 15 Laurence Pountney Lane, London.

**JUNIOR** Assistant; not under 21; one having passed the Minor exam. preferred; good address and obliging business habits, and well up in Dispensing. Apply, giving age, height, salary required, with references, inclosing carte (to be returned), to A. Thresh, Chemist, Buxton, Derbys.

**WANTED**, Manager, qualified, married, to live on premises, Mixed Retail, Prescribing, with Tooth Extraction, and small quantity of oils and paints; must be sober, pushing, and obliging; successful service would lead to interest in business. Apply, 10 Hawkshead Street, Southport.

**WANTED**, Manager, qualified, to take charge of a Mixed Retail and Prescribing business; able to Extract Teeth, and must be steady and obliging; married preferred, to live on the premises. Address, giving references and all particulars, to S. Parker, 360 Leeds Road, Braiford, Yorks.

**AS** Assistant, active and obliging. Apply, E. Lacy & Co., 156 White-chapel Road, London, E.

**WANTED**, immediately, a qualified Assistant. Apply, with terms, &c., J. J. Nicholson & Co., Chemists, Sunderland.

**WHOLESALE.**—Wet Counterman, understanding the business, and willing to work. Walker, Troko & Co., 82 City Road, E.C.

**QUALIFIED** Manager, to take sole charge of branch business; one seeking a permanency preferred. Apply, with usual particulars, Thos. McCrindle, High Road, Tottenham, N.

**A JUNIOR** Assistant of good address; two assistants kept. Please apply, personally or by letter (enclosing photo if possible), to W. G. Blackham, 675 Holloway Road, Upper Holloway, N.

**ASSISTANT**; aged 19 to 21; one just out of apprenticeship and accustomed to Agricultural business preferred. Apply, stating height, salary, references, &c., Sutherland, Chemist, Totnes.

**AT ONCE**, indoors, experienced Counterman, must be active and good Salesman, in brisk cash business. Apply, with full particulars, to Lewis' Drug Stores, 2 Fitzjohn's Parade, South Hampstead, N.W.

**AN** Assistant, about 23; indoors; accustomed to good-class Retail and Dispensing; if convenient enclose photo, which will be returned. Address, with usual particulars, J. Fawcett, Behlington, Birkenhead.

**TWO** Assistants, outdoors, from 22 to 26 years of age; good Countermon, and accustomed to brisk business. Apply, stating age, height, and salary required, enclosing photo, Waud, Chemist, Hymarket, Leicester.

**ASSISTANT**; Minor qualification; aged 22 to 25; indoors; must be able to Extract Teeth and Prescribe. Applicants to state age, height, references, and salary required, to Hugh Fairhurst & Co., Warrington.

**WANTED** immediately, qualified Manager, single, for small Retail and Dispensing business; must be energetic and good Prescriber. Apply, inclosing photo and usual particulars, to Carvetb, 7 King Street, Plymouth.

**WANTED**, Branch Manager; age about 27; qualified; outdoors; Light Retail, Dispensing, &c.; state salary. Enclose carte and references to "Perfume," care of Messrs. Evans, Sons & Co., 56 Hanover Street, Liverpool.

**FOR** high-class Drug Stores.—A gentlemanly Assistant; single; Minor; outdoors; hours of business 8 till 7; no Sunday duty. Apply, sending particulars, with photograph, to Henry Hillier, Manager, 20 Market Place, Bath.

**WANTED**, a Junior Assistant not under 21; must be a good Dispenser and accustomed to Light Retail. Apply, stating age, height, salary required, &c., and enclosing carte (to be returned), to H. G. Varney, Chemist, Oxford.

**WANTED**, immediately, a Junior Assistant; not under 21; must be a good Dispenser and accustomed to Light Retail. Apply, stating age, experience, and salary required, with references, enclosing carte if convenient, to E. Silk, Teignmouth, South Devon.

**FEBRUARY 11th.**—Indoors; a competent Assistant, accustomed to Dispensing and the ordinary routine of a good Country business; another assistant kept; no Sunday duty; a Churchman preferred. Apply, stating age, height, qualifications, and salary, to R. M. Pratt, Pharmaceutical Chemist, Otley, Yorkshire.

**ASSISTANT** (21 to 25), outdoors, for suburban business; one who can prescribe and Extract Teeth preferred; good references indispensable; send photo (to be returned) with usual particulars as to age, height, experience, qualification, and salary required. Matthews & Son, 6 The Grove, Leytonstone, Essex.

**FEBRUARY 14th.**—Junior (indoors), with good experience of Retail and Dispensing, required for London business where a Senior is kept; must be accurate, neat, and obliging, and able to furnish good references; time for recreation. Full particulars, with age, salary, and carte (if practicable), to "Drug," care of Baiss Bros., 4 Jewry Street, E.C.

**WANTED**, immediately, good Assistant well up in Dispensing, Prescribing, Extracting, and General Retail in agricultural district; two kept; board in, but room provided out of house; undeniable reference necessary from last employer. Send portrait, with full particulars, stating how long left last cartb, to Tomlinson, Chelmsford, Essex.

**DISPENSER WANTED.**—The Guardians of the Poor of the Parish of Camberwell invite applications for the office of Dispenser for their Dispensary at 178 Commercial Road, Peckham, S.E.; salary £1.0 per annum, with apartments; supplied with coal, gas, water, &c.; candidates must be Licentiates of the Apothecaries' Company of London, or duly registered under the Pharmacy Act, 1858, or some other authority of law in that behalf. Applications, stating age, and whether married or single, with testimonials of recent date, to be forwarded on or before Thursday next, the 5th February, to Charles S. Stevens, Clerk to the Guardians.—Guardians' Offices, Peckham Road, S.E., 23th January, 1891.

**QUALIFIED** Assistant required; must be quick, industrious, competent, and of good moral character; married preferred; salary £100. State age, height, and when disengaged, and inclose photo (which will be returned), X. L., Messrs. Wright, Layman & Umney, Southwark Street, S.E.

**QUALIFIED** Manager, to take sole charge of small branch business in a central district of London; unfurnished apartments will be provided. Send particulars as to previous employment and salary required, to G. A., c/o Messrs. Hodgkinsens, Treacher & Clarke, 101 Whitecross Street, E.C.

**WHOLESALE** Patent Medicine Trade (country).—Wanted, a young man accustomed to getting up orders in a large establishment; quick and accurate, with good references. Address, stating experience and wages required, to "S.H.H.," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WHOLESALE**.—Wanted, two smart Juniors in Wet and Dry departments of Wholesale House in the North of England; previous wholesale experience desirable. Apply, with full particulars, stating salary required, to J. S. N., care of Messrs. Wm. Edwards & Son, 157 Queen Victoria Street, London, E.C.

**SCARBOROUGH HOSPITAL AND DISPENSARY**.—Wanted, immediately, a qualified Dispenser; outdoors; salary £72 16s. per annum; preference will be given to candidates having a knowledge of first aid. Applications, addressed to the Secretary, should be sent on or before Thursday, 5th February. Scarborough, 27th January, 1891.

## SITUATIONS WANTED.

*1s. for twelve words; 6d. for every six words beyond.*

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**IMPROVER**; 2 years' experience; aged 20. Chapman, 47 Connamore Road, Grimsby.

**LOCUM-TENENS**; disengaged; aged 24; good Extractor. 2 Horton Street, Lewisham, S.E.

**JUNIOR** (20); Dispensing and good-class Retail; disengaged. Griffiths, Quarry Hill, Tonbridge.

**JUNIOR** Assistant, or Surgeon's Dispenser; good experience. Mason, Wootton & Webb, Linton.

**MANAGER**; branch shop; qualified; 23; 9 years. Bates, 118 Grey Street, Newcastle-on-Tyne.

**LOCUM-TENENS**; good references; varied experience; qualified. "Leeum," Trinity Square, Llandudno.

**LOCUM-TENENS**; qualified; disengaged February 2; references. Tottle, 1 Harecourt Place, Scarborough.

**LOCUM-TENENS**, or Manager; qualified; aged 37; abstainer. "Chemists," 3 Culmore Road, Peckham, S.E.

**AS** Assistant; qualified; Plymouth or neighbourhood preferred. H., 103 Albert Road, Morice Town, Devonport.

**QUALIFIED** Gentleman requires responsible position with a first-class firm; outdoors. "Bro," 10 Halsey Street, S.W.

**WHOLESALE**.—Situation wanted (26); 10 years' in Retail; good references. A. B., 38 Shrubland Grove, Queen's Road, Dalston.

**ASSISTANT**; qualified; best West-end and provincial experience; disengaged March 1st. E. Thorp, 3 Keldholme Villas, Harrogate.

**ASSISTANT**; good-class business, London; time for study; 7 years' experience; aged 23. "Statim," Holroyd, 31 Duke Street, St. James'.

**WHOLESALE** or Export by May 1st; good colonial and English experience. Address, Dawson, 169 St. Lawrence Street, Montreal, Canada.

**JUNIOR** (20); 4 years' experience; indoors; London; time for study; salary no object. "Tempus," Knowles, Chemist, Sutton, Surrey.

**TRAVELLER**, with country connection, seeks re-engagement. Address, "Statim," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**JUNIOR** or Improver (19); 4 years' experience. H., 74 Dorset Street Broomspring Lane, Sheffield.

**COMPETENT** qualified Assistant; disengaged; 30; tall. J. K., 59 George Street, Richmond.

**ASSISTANT** (31); highest references; no objection to Temporary. C. 1 Courtenay Road, Penge.

**AS** Manager; married; qualified; height 5 ft. 7 in.; aged 42. Williams, 9 Church Bank, Bolton.

**LOCUM-TENENS** or Manager, by experienced Pharmaceutical Chemist (exam.). Heald, Sleaford.

**ASSISTANT** (27); 10 years' experience; first-class references. Coleman, 25 Arthur Street, Edinburgh.

**ASSISTANT**; 6½ years' experience; good references; Wholesale or Retail. Clapham, Peel, Isle of Man.

**AS** Traveller to Wholesale House. "Stigma," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**AS** Locum-Tenens or Branch Manager; aged 30; good experience; disengaged. L. T., 165 Kingsland Road, N.E.

**SITUATION** (outdoors); unqualified; thoroughly competent; married. K., Rose Cottage, Chipping Hill, Witham, Essex.

**AS** Senior, Manager of Branch or Warehouse; 25 years' experience; Wholesale and Retail. L., 110 Hucanall Road, Nottingham.

**AS** Assistant in a first-class business; aged 25; height 5 ft. 9 in. Minor qualification. E. M. Carruthers, 21 St. John's, Bedford.

**AS** Dispenser to Surgeon or Assistant to Chemist; thoroughly competent; 9 years' experience. French, 24 Bark Place, Bayswater.

**AS** Dispenser and Bookkeeper (mornings); engaged in hospital dispensing afternoons and evenings. Simpson, 4 Wyne Road, Brixton.

**THOROUGHLY** capable man, with highest references, unqualified, desires appointment, aged 26. "Chemist," 3 Ossian Road, Stroud Green, N.

**DISPENSER** and Bookkeeper to Surgeons; aged 24; 9 years' experience; excellent references. "Dispenser," 167 Newhall Road, Sheffield.

**TO** Manage a Branch; can Extract Teeth, &c.; qualified; married; good Prescriber; aged 40. "Chemists," 14 Gerrard Street, Aston, Birmingham.

**WHOLESALE**.—Youth, aged 19, seeks situation; 3 years' experience; London preferred. M., care of Buagalow, 65 Basinghall Street, City.

**AYOUTH**, aged 17, with a good knowledge of Drugs and Sandries, requires situation; in or out doors. "Chemist," Cooper's Arms Lane, Putney.

**WHOLESALE**, Wet or Dry Counter; good experience and references; disengaged; aged 27. D. A., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ASSISTANT**; unqualified; good references; middle-aged; total abstainer; 19 years' experience; moderate salary. "Borals," 40 Baginall Street, Wolverhampton.

**PART TIME**; London (S.E.) or Manchester preferred; aged 25; height 5 ft. 11 in.; abstainer and non-smoker; disengaged February 10th. "Temus," 17 Manot Square, Otley, Yorkshire.

**ASSISTANT**; thoroughly competent; 10 years' experience (North and South); aged 26; height 5 feet 10½ inches; abstainer. Address, stating particulars, "Rhei," 51 Kirkgate, Otley, Yorks.

**TRAVELLER**.—Drug or Sandries; re-engagement required by a gentleman with connection in North of England, Wales, and Scotland. M., Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

**MANAGER**; branch or otherwise; long experience; excellent references; Minor; height 5 ft. 9 in.; aged 31; unmarried; sober; well up in Dental Extraction and Stopping. "Dens," 20 Avenue, Wimborne.

**TRAVELLER**.—A gentleman of large commercial experience, well known to the trade, representing a Sandries house, is open to engagement with firm of Manufacturers or Wholesale Druggists on commission and part expenses; ground covered, South Coast and adjacent counties. Address, "Eaonymia," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MANAGER**, branch or otherwise, by qualified Dental Surgeon, who has his own instruments for all dental operations, including gas apparatus; 15 years' experience in drug trade, aged 29; height 5 ft. 8 in.; married; own furniture; good Prescriber and Dispenser; good salary expected, with half profits in cent try; highest references and testimonials; disengaged; personal interview, if train-fare allowed. "Dental Surgeon," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

If you have no surplus stock to Advertise just now, keep this Form for future use.



"'Vinolia' Soap is of unquestionable excellence, and is much in favour with the profession." — *British Medical Journal*.

"Odour delicate, and the article of excellent quality." — *Lancet*.

"An Ideal Soap delightfully perfumed, and the skin has a velvety feeling after washing with it." — *Chemist and Druggist*.

"Excellent from its purity, lathers freely, and is very lasting." — *Queen*.

"Vinolia" Soap, Floral, 6d.; Balsamic, 8d.; and Otto of Rose, 10d. per Tablet.

"Vinolia" Powder (in Pink, White, and Cream), 1s. 9d., 3s. 6d., and 6s. per Box.

"Vinolia" Shaving Soap, 1s., 1s. 6d., and 2s. 6d. per Stick; and Flat Cakes, in Porcelain-lined Metal Boxes, 2s.

"Vinolia," 1s. 9d., 3s. 6d., and 6s. per Box.

**BLONDEAU ET CIE., RYLAND ROAD, LONDON, N.W.**

*See also page 11.*

# HONEST SOAP.

FROM

**Dr. REDWOOD, Ph.D., F.I.C., F.C.S., &c.,**

Professor of Chemistry and Pharmacy to the Pharmaceutical Society of Great Britain.

“ Being authorised by Messrs. Pears to purchase at any and  
“ all times, and of any dealers, samples of their Transparent Soap  
“ (thus ensuring such samples being of exactly the same quality  
“ as is supplied to the general public), and to submit same to the  
“ strictest chemical analysis, I am enabled to guarantee the in-  
“ variable purity of this soap.

“ The proportion of alkalies to fats is absolutely chemically  
“ correct. In a perfect toilet soap neither preponderates—a  
“ characteristic the immense importance of which the public have  
“ not yet been ‘educated up’ to realizing. An excess of alkali or  
“ an excess of fat being alike very injurious, and even dangerous  
“ to a sensitive skin.

“ It is also free from any admixture of artificial colouring sub-  
“ stances, its well-known dark amber tint being entirely due to  
“ the natural colour of the materials used in its manufacture.

“ The perfumes introduced are pure, agreeable, and perfectly  
“ harmless.

“ No water has been added. Water is quite commonly added  
“ in the manufacture of soaps to increase their weight (some con-  
“ taining as much as 30 to 40 per cent.), but PEARS’ SOAP is  
“ entirely free from any such admixture, and thus being *all soap*  
“ *instead of soap and water*, it is remarkably lasting, that is to say,  
“ that whilst producing an abundant lather it is not quickly worn  
“ away in use, and wears down to the smallest possible piece;  
“ there being consequently no waste *it is really a remarkably cheap*  
“ *article.*

“ My analytical and practical experience of PEARS’ SOAP now  
“ extends over a very lengthened period—nearly fifty years—during  
“ which time I have never come across another Toilet Soap which  
“ so closely comes up to my ideal of perfection; its purity is such  
“ that it may be used with perfect confidence upon the tenderest  
“ and most sensitive skin—even that of a new born babe.”

*Dr. Redwood, Ph.D., F.I.C., F.C.S.*

# HIGHEST AWARDS EVERYWHERE!

London, Paris, Philadelphia, Boston, Sydney,  
Melbourne, Santiago, Adelaide, &c.


BY  
APPOINTMENT  
SOAP MAKERS



To H.R.H.  
the  
PRINCE of WALES.

## Pears' Soap

Established 100 years, and from the world's first great Exhibition in 1851 down to its last in Paris, 1889, it has, in every instance, obtained the Highest Medals and Diplomas at the disposal of the Judges; a series of achievements without precedent amongst Exhibitors of any class of goods whatever---of those awards **Messrs. PEARS** hold no fewer than Twenty. *Since then Edinburgh 1890 Gold Medal*

 As at each Exhibition the jury is composed, on an average, of more than five of the

## Chief Experts of the World

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**100 OF THE WORLD'S FOREMOST AUTHORITIES!**

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No.

# Pears' Soap

Soap Makers  
by Appointment to



H.R.H.  
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RETAIL PRICES.			Per Dozen.	WHOLESALE PRICES.
	6d.	SIZE, unscented	- - -	4s.
	1s.	„ all shapes, Washing or Shaving		8s.
	1s. 6d.	„ Ditto ditto		12s.
	2s. 6d.	„ (The Washing Tablets are perfumed with Otto of Roses)		20s.
<hr/>				
	TRANSPARENT GLYCERINE	2s. per Box of 3 Tablets	16s.	Per dozen Boxes.

**DISCOUNT of 20 per Cent.**  
On all ORDERS of NOT LESS than **£5.**

(GROSS TRADE-PRICE VALUE.)

**If accompanied by Remittance,**

[Lesser Quantities 15 per Cent. Discount only.]

## IMPORTANT STATEMENT.

No Dealer in the Kingdom, "Wholesale or Retail," for any quantity whatever obtains more than the above **20 PER CENT.** Discount.

(Signed), *A & F Pears*

71-75, NEW OXFORD STREET, LONDON, W.C.

*Good morning!*



*Have you used  
Pearls' Soap?*

The BRITISH MEDICAL JOURNAL says:—

"The use of a linseed poultice is so general, and, at the same time, attended with so many difficulties and inconveniences, that anyone who discovers a really effectual ready-made linseed poultice, capable of extemporaneous and effectual use, is, in a small way, a benefactor. We are inclined to think that Seabury's Ready-made Linseed Poultice (Robin's patent), goes a long way towards solving the problem.—It is light, flexible, clean and easily applied. Three minutes' soaking in hot water makes the poultice ready."

# SEABURY'S

## READY-MADE

# Linseed Poultice

(CATAPLASME ROBIN, PATENT 5,937.)

A Perfect Linseed Poultice ready for use in three minutes, which will retain its heat and moisture for eighteen hours.

### DIRECTIONS FOR USE.

Cut a piece of the Cataplasme of the prescribed size, place it in hot water for about three minutes, apply promptly to the affected part, and cover it with some waterproof dressing, as MEAD'S Dressing Paper, or Gutta Percha Tissue, somewhat larger than the Poultice, so that it may be completely covered on every side.

### NOTE.

This is the first instantaneous and unchangeable Ready-made Linseed Meal Poultice ever produced. It is antiseptic, and entirely supersedes the use of linen. It is flexible, light, homogeneous, clean, easy of application, and does not diffuse any disagreeable odour.

If any medication is prescribed in addition, such as mustard, it can easily be sprinkled over the poultice.

Sold in Cartoons containing  $27\frac{1}{2} \times 9\frac{1}{2}$  inches,

RETAIL, 2/3 EACH.

WHOLESALE, 21/- PER DOZ. (Subject).

Sole Agents for Great Britain and the Colonies—

**SEABURY & JOHNSON,**  
46, JEWIN STREET,  
LONDON, E.C.

The LANCET says:—

"We regard this as an important addition to Cataplastic Medicaments. The advantage and convenience of being able to prepare a linseed poultice ready for use in three minutes, which will properly retain its heat and moisture, are obvious."



Replica of the Chromograph used on our Counter Show-Card!



If you would like one of these, send us your Business Card!

DR. ZIEMER'S  
ALEXANDRA DENTIFRICE.

143, CANNON STREET, LONDON, E.C.

SIR,

*January, 1891.*

In asking you to read this communication through to the end, you will find that we do so seeking our mutual advantage, and we take this opportunity to assure you that it is a matter which must sooner or later have your attention, on account of the enormous extent which we advertise it.

We therefore ask you to kindly note the following points in regard to "**Dr. Ziemer's Alexandra Dentifrice**," the last of which is probably the most important from your point of view.

1st—There is **absolutely nothing** at present being sold to equal "**Dr. Ziemer's Alexandra Dentifrice**," and we especially draw your attention to the extracts given further on.

2nd—It has **no equal** as an adornment for the dressing table, owing to its beautiful color and the way it is got up.

3rd—We are now advertising "**Dr. Ziemer's Alexandra Dentifrice**" to such an extent that in a short time there will be a **large demand** for it, and you will find it **necessary to keep it, in order to oblige your customers.** We shall be pleased to send you show cards, wrappers, self-supporting cards, transparencies, etc., etc. As regards the quality and beauty of the show-cards, there is at present nothing out to equal them.

**LAST & MOST IMPORTANT.**—The Profits which the Dentifrice yields you are considerably larger than on any similar preparation! If you will kindly compare the prices, you will find this to be an **absolute fact.** For instance

The Bottles advertised at **1s. 3d.** you get at **9d.** therefore a **profit of 6d. on the smallest size.**

" " " **2s** " " **1s. 3d.** therefore a **profit of 9d. on each bottle.**

" " " **3s. 6d.** " " **2s.** therefore a **clear profit of 1s. 6d. is yours.**

We submit that these profits are very large, in fact, no proprietary article of any kind bears such good profits!

Kindly notice the following extracts:—

THE CHEMIST AND DRUGGIST writes *July, 1890.*

Messrs. B. W. Ziemer & Co. have established themselves at 143, Cannon Street, to introduce to the British Public a new liquid dentifrice and mouth-wash under the title of "**The Alexandra.**" It is from the formula of Dr. Ziemer, and has had much success in Germany. It is a very agreeable dentifrice and its rich color and transparent labels make it quite an attraction for the counter.

Messrs. CORBYN, STACEY & Co., write in their MONTHLY REPORT, *September, 1890.*

A novelty in the form of a mouth-wash and dentifrice combined has recently been introduced by B. W. Ziemer & Co., of 143, Cannon Street, London, E.C. So numerous are preparations for the mouth and teeth, both in the liquid and solid form, that we should have thought a novelty in this direction was almost impossible. Dr. Ziemer's "**The Alexandra**" is a liquid preparation, and having had an opportunity of examining its merits, we can only conclude that its popularity will not take long in becoming an established fact. It is not only efficacious in cleansing the teeth and sweetening the breath, but it is also, unlike many preparations used for a similar purpose, a most agreeable and pleasant preparation to use. It is cleanly in use, and only a few drops in four or five fluid ounces of water are required, thus rendering it an economical as well as an effective and pleasant toilet requisite. In addition to its practical value we may add that its appearance and get up are most attractive.

Yours very obediently,

**B. W. ZIEMER & Co.**

**P. S.—THE ALEXANDRA TOOTH PASTE in JARS AND TUBES will be ready on MARCH 1st, 1891 and will also YIELD TO RETAILERS AN ENORMOUS PROFIT.**



# The Original Home of Quina Wine.

2, 3, 4, DUKE STREET,  
GROSVENOR SQUARE,  
LONDON, W.

To the Voters in "THE CHEMISTS' & DRUGGISTS' DIARY," 1891,  
Advertisement Competition.

GENTLEMEN,

When we drew up our Advertisement which appears on pages 37 to 44 of "The Chemists' and Druggists' Diary," we had no other thought than our mutual advantage; and we endeavoured to give effect to that in as artistic and effective a way as possible. You have been pleased to return us a high compliment for our effort, and we desire to thank you sincerely for that compliment.

We find from the report of the Coupon Competition in "The Chemist and Druggist" of January 17th, that your votes have placed our Advertisement in the favourable position here noted:—

The best Illustration .....	<u>FIRST PLACE.</u>
The most effective page .....	<u>FIRST PLACE.</u>
The most high-toned Advertisement .....	<u>SECOND PLACE.</u>
The most generally effective Advertisement.....	<u>THIRD PLACE.</u>
The most novel Advertisement.....	<u>FOURTH PLACE.</u>
The most tempting Advertisement .....	<u>SIXTH PLACE.</u>

Altogether 1034 VOTES were recorded in our favour. Although there was no attempt at competition on our part, we do appreciate the goodwill of those of the 1034 who have thus commended our pages, and we thank them.

The result is in keeping with the reputation of the articles which we advertise, and, as we have never been content to stand still, we endeavour in this issue to substantiate our appreciation by presenting the trade with another Advertisement, which we trust will be equally pleasing, and result in profitable business to the trade and ourselves.

We are, yours faithfully,

ARMBRECHT, NELSON & CO.



THE OLD ORIGINAL HOME OF COCA WINE (ARMBRECHT).

# COCA (ARMBRECHT) WINE



For Fatigue of Mind and Body.



CELLAR N° 6



CELLAR N° 7.



STORE ROOM.



PHARMACY



STORE ROOM.

**ARMBRECHT, NELSON & CO.**  
 2, 3 & 4, DUKE STREET, GROSVENOR SQUARE.  
 LONDON.

## DYSPEPSIA.

"DAILY EXPRESS," DUBLIN, *January 7th, 1890.*

SIR,—In answer to your correspondent "Dyspepsia's" letter in your issue of the 31st *December*, under the heading "A Plea for Luncheon," I would recommend him and his fellow-sufferers to provide themselves with a bottle of Messrs. ARMBRECHT, NELSON & Co.'s COCA WINE, keep it in their desks, and take half or a whole wineglass of it in the middle of the day with their "few slices of bread and butter." They will find that a small amount of this very pleasant and invaluable preparation will remove the sense of fatigue, satisfy the craving for food, and assuage thirst. For those bank officials and city clerks who are total abstainers, and might object to the use of wine, even as a medicine, Messrs. ARMBRECHT prepare coea extract and coea lozenges. They are all prepared from the leaves of erythroxylon coea, a small shrub which grows in South America, and has been known and appreciated by the natives of that country from the earliest times. The Indians will pass the whole day working or travelling, sustained solely by coea, but eating freely in the evening. The natives working in the mines derive such sustenance from chewing these leaves that they frequently take no food for four or five days, though constantly working, and with a good supply of coea they feel neither hunger, thirst, nor fatigue; and without inconvenience or injury they could remain eight or ten days without sleep.

Mr. Markham, in his "Peruvian Barks," says: "I chewed coea, not constantly, but very frequently, and, besides the agreeable, soothing feeling it produced, I found I could endure long abstinence from food with less inconvenience than I should otherwise have felt; and it enabled me to ascend precipitous mountain sides with a feeling of lightness and elasticity, and without losing breath."

I will not trespass further on your valuable space, but will content myself by saying that the sample bottle Messrs. ARMBRECHT were kind enough to send me I gave to my wife, who was suffering from nervous debility, exhaustion, and insomnia, the result of a painful complication of diseases, necessitating her remaining in bed over two months. In her case, the only one I have had an opportunity of trying it in, it acted as a charm, strengthening, soothing, and producing a feeling of complete restfulness, and inducing sound and refreshing sleep. Messrs. ARMBRECHT, NELSON & Co.'s address is 2, Duke Street, Grosvenor Square, London, W. *They supply Clergymen and Medical Men with samples free, and pay postage on bottles ordered.* The price for a large bottle is 5s. Their Agents in Armagh are W. COUSER, 4, English Street. Louth: Lucas and Walkington. Trusting these remarks may prove of use to "Dyspepsia," *et hoc genus omne.*

I am, Sir, yours faithfully,

L.R.C.S.I., M.K.Q.C.P.I., &c.

15, Ness Bank, Inverness, N.B.

*January 3rd, 1890.*



4/6 a Bottle; 48/- per doz.

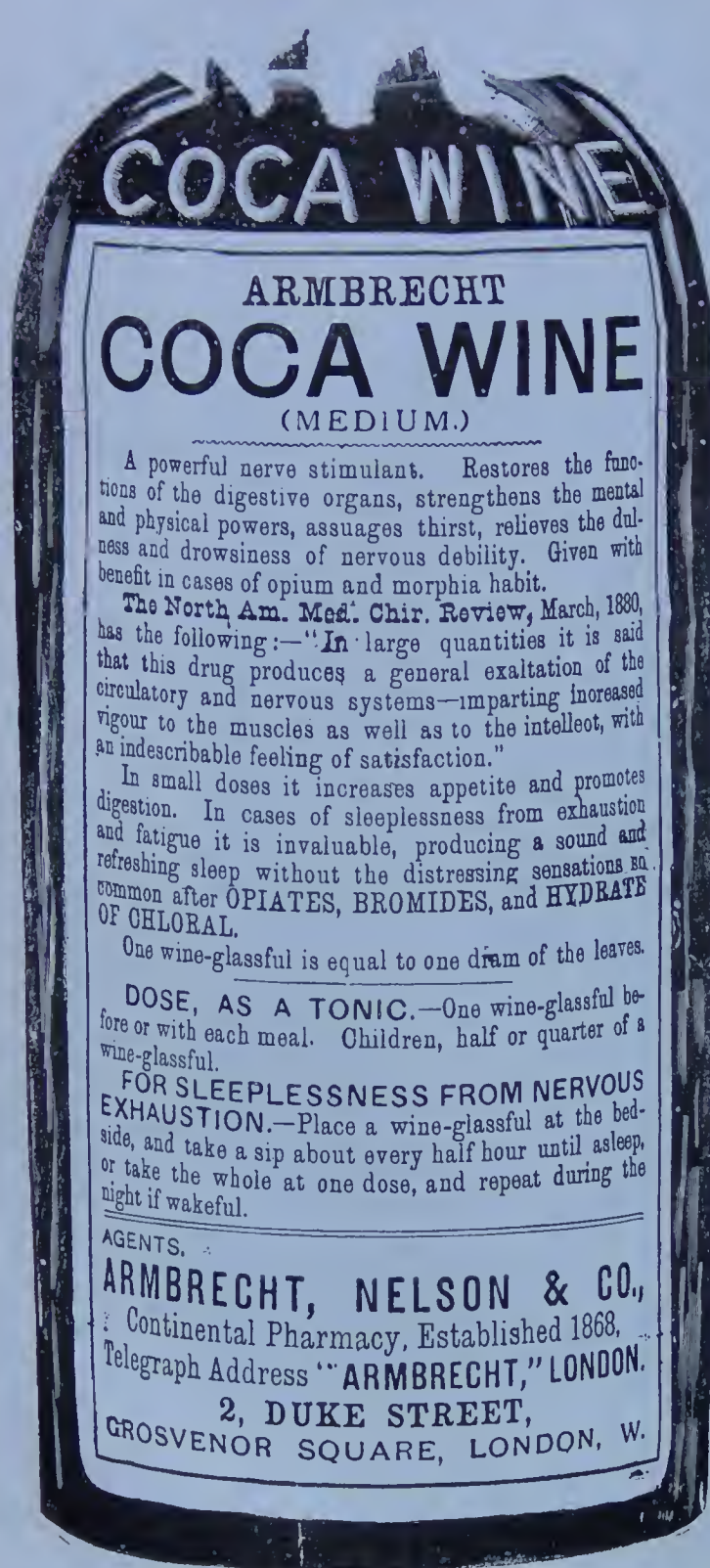
25 % DISCOUNT.

**Messrs. ARMBRECHT, NELSON & CO.,**

2, 3, 4, DUKE STREET, GROSVENOR SQUARE, LONDON.

# ARMBRECHT \* COCA \* WINE.

[This Illustration represents the EXACT SIZE of the 4s. 6d. Bottle.]



4s. 6d. a Bottle.



48s. per Dozen.

"Several preparations of Coca Wine have been placed before the public, but we unhesitatingly accord to the above the first place. Their Coca Wine is more suited to the English palate than some of the continental preparations, which are too sweet to be palatable, and which destroy their otherwise tonic and invigorating qualities by deranging the digestive system or creating nausea. The value of Coca Wine in conditions of debility is too well recognised to require comment, and we need do no more than say that, after a very careful trial of Messrs. ARMBRECHT, NELSON & Co.'s Wine, we can speak most highly of it as a sound and invigorating tonic, and can recommend it most unhesitatingly."—*Journal of Laryngology and Rhinology.*

For Trade Discount, see Opposite Page.

Handbills, Show Cards, &c., Free on Application.

ARMBRECHT, NELSON & CO., 2, 3, & 4, Duke Street, Grosvenor Square, LONDON.

TO THE TRADE ONLY.

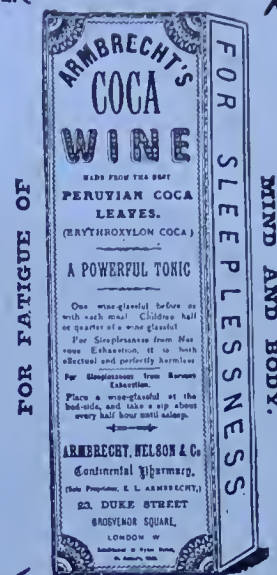
COCA WINE  
(ARMBRECHT).

## ORDER SHEET.

18

Gentlemen,

Please to send immediately on receipt of  
this, by



WHOLESALE.		RETAIL PRICE.		£	s.	d.
Doz. Coca Medium	36 0	Imperial Pints.....	48/0 doz.			
„ Coca Burgundy.....	36 0	„	48/0 „			
„ Coca Malaga .....	36 0	„	48/0 „			
„ Coca Port .....	36 0	„	48/0 „			
„ Coca Sherry .....	36 0	„	48/0 „			
„ Coca Champagne .....	46 6	Quarts .....	56/0 „			
„ „ .....	26 6	Pints.....	33/0 „			
„ Coca Wine Extract .....	31 6	Bottles .....	42/0 „			
„ „ .....	49 6	„	66/0 „			
„ Coca Lozenges .....	13 6	Box .....	18/0 „			
„ „ .....	22 6	Tin .....	30/0 „			
„ PAMPHLETS FOR DISTRIBUTION—NO CHARGE.						

To

Address

SPECIAL PRICE ON GROSS LOTS.

Messrs. ARMBRECHT, NELSON &amp; CO.,

2, Duke Street, Grosvenor Square, London, W.

IF ORDER BE SENT TO US DIRECT and REMITTANCE ENCLOSED, we offer a discount of 2½ %  
single dozen, not less; and 5 % on 3 dozen lots, Carriage Paid England and Wales.  
and Half Scotland and Ireland.

Armbrecht's Coca Preparations have proved most successful to ward off Influenza, and to remove the weakness and lassitude during convalescence.

# COCA WINE

# EXTRACT.

A SUBSTITUTE FOR COCA WINE,

Or for making Coca Wine by adding five drops (or more) to Wine.

A powerful nerve stimulant. Restores the functions of the digestive organs, strengthens the mental and physical powers, assuages thirst, relieves nervous debility. Given with benefit in cases of opium and morphia habit.

The *North Am. Med. Chir. Review*, March, 1880, has the following:—"This Coca produces a general exaltation of the circulatory and nervous systems, imparting increased vigour to the muscles as well as to the intellect, with an indescribable feeling of satisfaction . . . and, what is more singular, this state of exaltation is not followed by any feeling of languor or depression."

In small doses it increases appetite and promotes digestion (five or more drops before each meal). In cases of sleeplessness from exhaustion and fatigue it is invaluable, producing a sound and refreshing sleep, without producing the distressing sensation so common after OPIATES (five or more drops at bedtime, and repeated once in an hour's time if necessary).

3s. 6d. and 5s. 6d. a Bottle. Discount 25 per cent. Carriage paid on dozen lots.

# COCA LOZENGES.

These Lozenges are recommended instead of the Wine where it is not convenient to take the latter. They contain the extract of the green Coca leaves, and may be used in cases of *loss of voice* before and after singing and public speaking. Harmless if even used to excess.

DIRECTIONS.—Two or three Lozenges to be sucked whenever desired.

Price 1s. 6d., 2s. 6d., and 5s. Discount 25 per cent. Carriage paid on dozen lots.

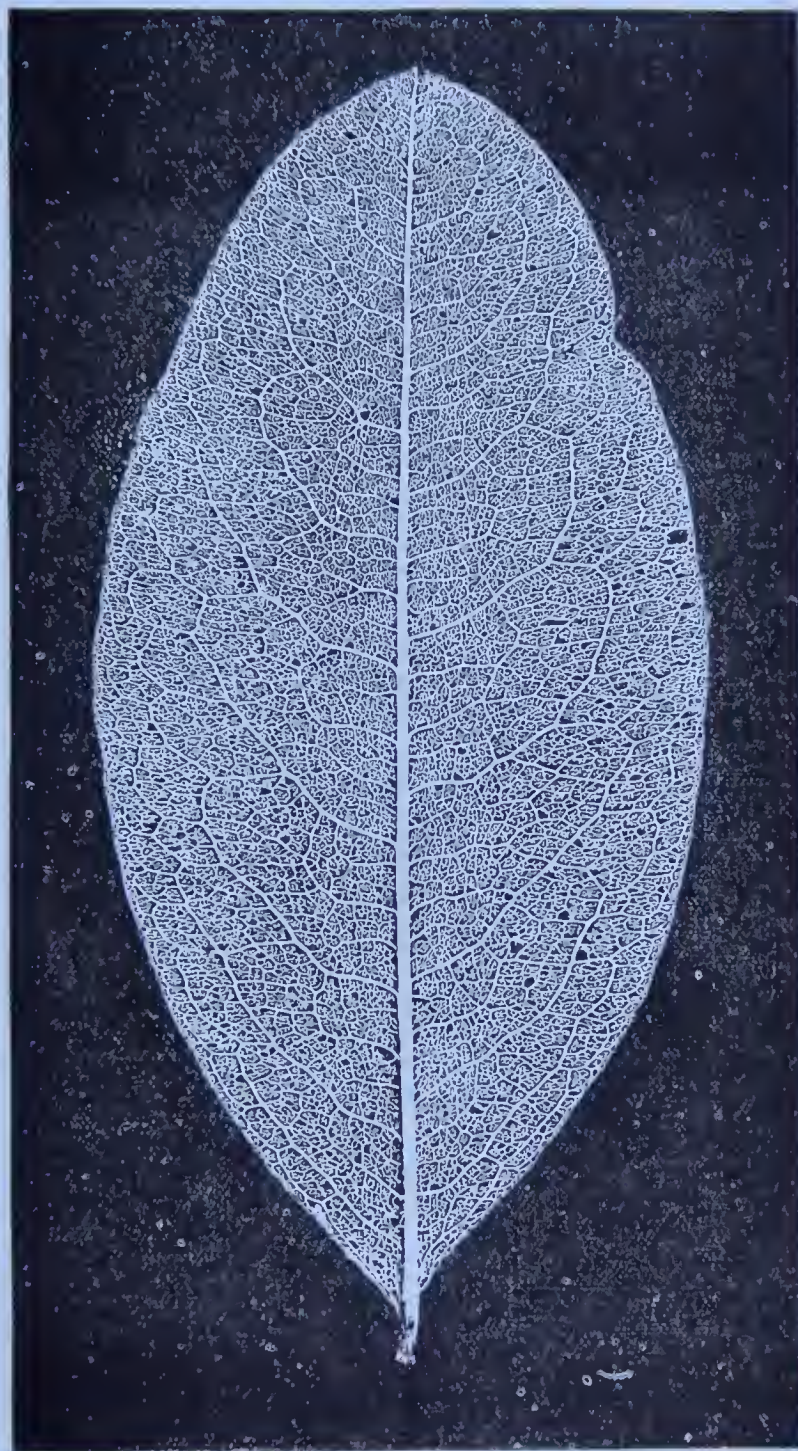
These Two Preparations are especially recommended to Travellers, Cyclists, &c.

# ARMBRECHT, NELSON & CO.,

2, 3 & 4, Duke Street, Grosvenor Square, London.

# SKELETON OF A FINE PERUVIAN COCA LEAF

(Enlarged by Photography),



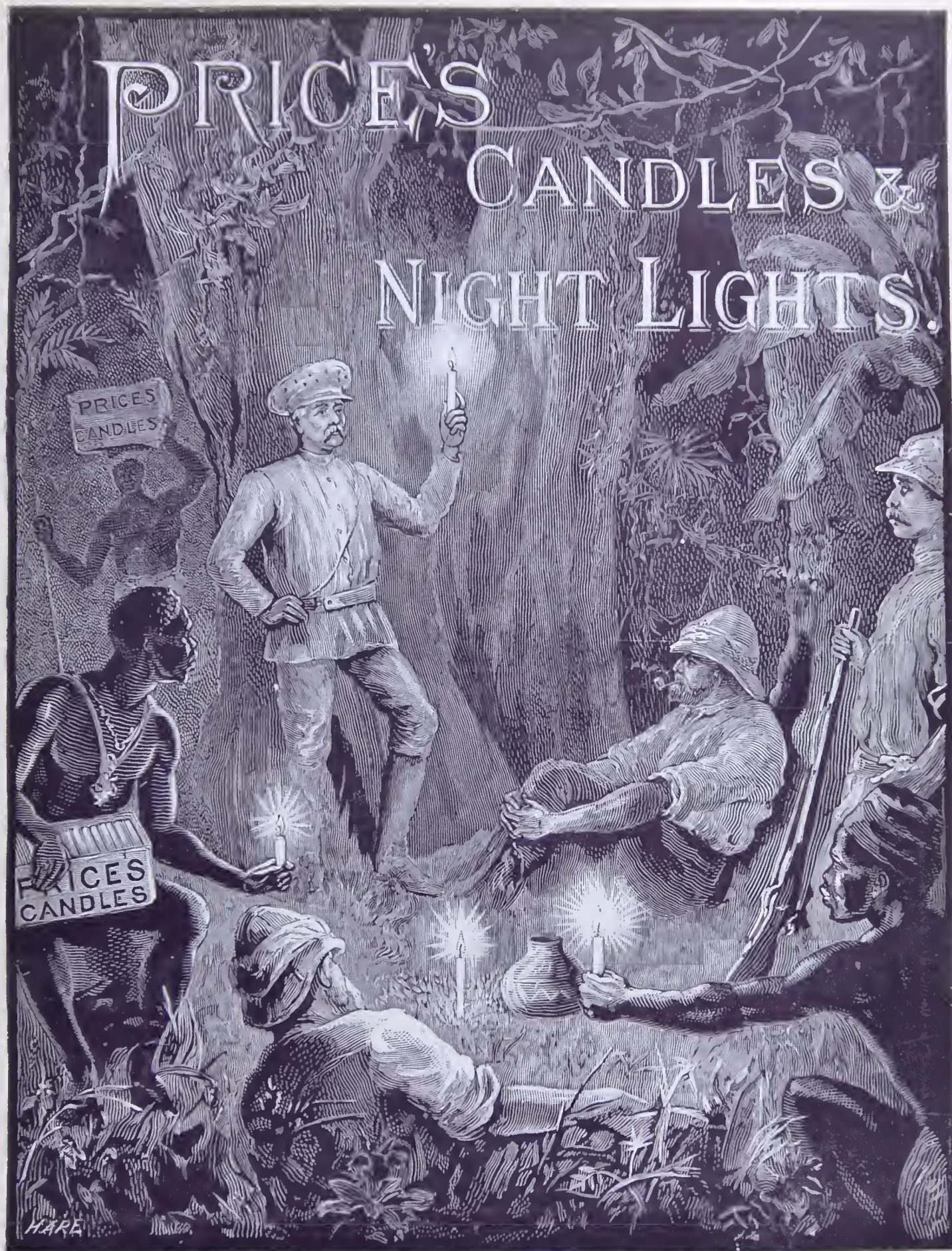
BY THE PROPRIETOR OF

ARMBRECHT'S COCA WINE, 2, 3, 4, Duke St., Grosvenor Square, LONDON.

## THE FUTURE HOME OF COCA WINE (ARMBRECHT).



Nos. 5 &amp; 6, DUKE STREET, GROSVENOR SQUARE (in progress of building).



LIGHT FOR "DARKEST AFRICA"

Manufactured by

PRICE'S PATENT CANDLE COMPANY LIMITED,

LONDON, LIVERPOOL & MANCHESTER

PRICE'S

Gold Medal PALMITINE

CANDLES.

PRICE'S

New Patent No. 1855 Childs' & Royal Castle

NIGHT LIGHTS.

PRICE'S  
GLYCERINE

GUARANTEED FREE FROM  
ARSENIC & ALL OTHER  
IMPURITIES.

**PRICE'S TOILET SOAPS**

"REGINA" & "GLYCERINE CREAM"

HIGH GLASS TOILET SOAPS.

PRICE'S PATENT CANDLE COMPANY LIMITED

LONDON AND LIVERPOOL.

# POTTER & CLARKE

(ESTABLISHED 1812.)

5, 6 &amp; 7, Raven Row, Artillery Lane, LONDON, E.;

54, GREAT ANCOATS STREET, MANCHESTER.



Penny Packets, **6/-** Per Gross.

IN 2 GROSS CASES, OR ON HALF-GROSS CARDS.

Price for empty Show Case, **1/-** each; or free with 2 gross orders.

Our Special LIST of **VEGETABLE & FLOWER SEEDS**  
in Bulk, post free on application.

This Special Show Case, made of Metal, Japanned Black, with Bronze Lettering, to hold 30 varieties, or 2 gross in all.—Price **3/6** each, empty.

The sale of Flower and Vegetable Seeds, as recommended in the *Chemist and Druggist's Diary* last year, is undoubtedly a great success where properly pushed.

OUR PICTORIAL PACKETS are very attractive, and every care is taken that only New Seeds of the best quality are sent out. The large number of repeat orders which we received last season is a proof that the public recognise that in buying the "Winged Lion Brand" they are getting a good article.

We have made special arrangements for prompt delivery, and are also issuing a large Descriptive Plate, Printed in Colors, varnished and mounted on rollers. Price **1/-** each, or free with 6 gross orders.

WE WOULD ALSO CALL YOUR ATTENTION TO OUR PACKETS OF

## LAWN GRASS AND MIXED BIRD SEED

Which are most tastefully packed, and command a ready sale.

# LIST of FLOWER SEEDS in PACKETS

No.	Name.	Wholesale Price. per lb. per oz.	No.	Name.	Wholesale Price. per lb. per oz.	No.	Name.	Wholesale Price. per lb. per oz.
1	Aeroclinium album ...	3d	60	Gaillardia grandiflora, mixed ...	1/-	118	Oenothera Drum. (Evcu. P'rose) ...	6d
2	Aeroclinium roseum ...	3d	61	Gaillardia Pieta Lorenziana ...	8d	119	Pansy, mixed ...	1/4
3	Adonis Flos ...	1/3	62	Gilia tricolor ...	1/-	120	Pansy, pure white ...	2/6
4	Ageratum, Imperial dwarf ...	8d	63	Godetia, Bijou ...	6d	121	Papaver Danabrog ...	4d
5	Ageratum Mexicanum ...	4d	64	Godetia, Duchess of Albany ...	9d	122	Papaver nudicaule ...	2/-
6	Ageratum Mexicanum, white ...	4d	65	Godetia, Lady Albemarle ...	6d	123	Papaver umbrosum ...	6d
7	Alyssum saxatile, yellow ...	4d	66	Godetia, The Bride ...	4d	124	Pea, Everlasting, red ...	12/-
8	Alyssum, Sweet ...	4/-	67	Godetia Whitneyi ...	4d	125	Pea, Sweet, mixed ...	2/- qt.
9	Amarautus melancholicus rub ...	2/6	68	Helichrysium brachyrhynchum ...	1/-	126	Porilla Nankincensis ...	2/-
10	Antirrhinum, fine mixed ...	6d	69	Helichrysium bracteatum ...	4d	127	Petunia, fine mixed ...	10d
11	Aster, China, mixed ...	4d	70	Helichrysium compositum ...	9d	128	Phlox Drummondii ...	12/-
12	Aster, Crown or Cocardeau ...	9/6	71	Helichrysium monis, mixed ...	10d	129	Phlox Drummondii Grandiflora ...	1/6
13	Aster, Dwarf Chrysanth. flowered ...	2/-	72	Hibiscus Africanus ...	2/-	130	Pink, Pheasant's eye ...	2/6
14	Aster, German, mixed ...	8d	73	Hollyhock, double, mixed ...	4/-	131	Platystemon Californicum ...	6d
15	Aster, German, white ...	1/-	74	Indian Pink ...	5d	132	Poppy, Double Garden ...	3d
16	Aster, Paony-flowered ...	1/6	75	Indian Pink, double ...	8d	133	Poppy, Dwarf French ...	3/6
17	Aubretia purpurea ...	1/-	76	Jacobaea, mixed ...	1/-	134	Portulaca, mixed ...	8d
18	Balsam, Camollia-flowered ...	1/8	77	Kaulfussia amelloides ...	8d	135	Prince's Feather ...	1/-
19	Balsam, fine mixed ...	8d	78	Lantana, mixed ...	6d	136	Pyrethrum (Golden Feather) ...	18/-
20	Bartonia aurea ...	4d	79	Larkspur, Dwarf Rocket ...	2/6	137	Pyrethrum roseum, mixed ...	1/6
21	Calandrinia speciosa ...	1/4	80	Larkspur, Hyacinth-fl., mixed ...	5d	138	Rhodanthus maculata alba ...	1/6
22	Calendula, "Meteor" ...	3d	81	Lavatera, mixed ...	4d	139	Rhodanthus Munglesi ...	1/6
23	Candytuft, carmine ...	9d	82	Leptosiphon densiflorus ...	4d	140	Rocinus sanguinea ...	1/3
24	Candytuft, dark crimson ...	3d	83	Leptosiphon densiflorus albus ...	6d	141	Salpiglossis, mixed ...	10d
25	Candytuft, mixed ...	1/6	84	Leptosiphon, mixed ...	4d	142	Sanvitalia procumbens, double ...	10d
26	Candytuft, purple ...	3d	85	Leptosiphon roseus ...	6d	143	Saponaria Calabrica ...	3/6
27	Candytuft, white ...	1/3	86	Limnanthes Douglasi ...	2/-	144	Saponaria Calabrica, white ...	3/-
28	Candytuft, White Rocket ...	3d	87	Linaria aparinoides splendens ...	3d	145	Schizanthus pinnatus ...	2/6
29	Cauterbury Bell, mixed ...	4d	88	Linum grandiflorum, blue ...	2/6	146	Sileue pendula compacta ...	3/6
30	Carnation, mixed ...	6d	89	Linum grandiflorum rubrum ...	2/-	147	Silene pendula compacta, white ...	3d
31	Chrysanthemum, double ...	3d	90	Lobelia speciosa ...	2/-	148	Spbenogyne speciosa ...	4d
32	Chrysanthemum, segetum ...	4d	91	Lobel's Catchfly ...	1/9	149	Stock, Brompton, mixed ...	4/-
33	Chrysanth. tricolor Burridgian ...	4d	92	Love-lies-bleeding ...	1/-	150	Stock, Brompton, white ...	4/-
34	Chrysanthemum tricolor, mixed ...	3d	93	Lupinus, mixed ...	9d qt.	151	Stock, German Ten-week ...	2/-
35	Clarkia elegans rosea ...	2/-	94	Lupinus, yellow ...	9d	152	Stock, Ten-week, mixed ...	1/6
36	Clarkia integripetala ...	2/6	95	Lupinus nanus ...	2/6	153	Stock, Virginian, mixed ...	1/4
37	Clarkia, mixed ...	2/-	96	Lychnis, scarlet ...	5d	154	Stock, Virginian, red ...	1/4
38	Clarkia pulchella ...	2/-	97	Malope grandiflora ...	1/6	155	Sunflower, tall ...	9d
39	Clarkia pulchella alba ...	3d	98	Malope grandiflora alba ...	1/8	156	Sweet Rocket ...	1/4
40	Cockscomb ...	2/-	99	Marigold, African ...	6d	157	Sweet Scabious, double dwarf ...	3d
41	Collinsia bicolor ...	1/-	100	Marigold, Double Garden ...	1/4	158	Sweet Sultan, mixed ...	6d
42	Collinsia bicolor alba ...	3d	101	Marigold, French ...	4d	159	Sweet William ...	2/6
43	Columbine, mixed ...	3/-	102	Marvel of Peru ...	1/-	160	Tagetes signata pumila ...	6d
44	Convolvulus major ...	10d	103	Mathiola Bicornis ...	4d	161	Thunbergia, fine mixed ...	1/3
45	Convolvulus minor ...	8d	104	Mignonette ...	1/4	162	Tropaeolum C. (Canary Creeper) ...	8d
46	Coreopsis atrosanguinea ...	3d	105	Mignonette, Giant Pyramidal ...	6d	163	Tropaeolum Lobbianum ...	4/-
47	Coreopsis Drummondii ...	3/-	106	Mimulus, mixed ...	2/-	164	Venus' Looking Glass ...	2/6
48	Coreopsis tinctoria ...	2/6	107	Mimulus moschatus (Musk) ...	8/-	165	Verbena, mixed ...	1/4
49	Cyanus minor, mixed ...	2/-	108	Nasturtium, Tall, mixed, p. bus. 20/-	1/- qt.	166	Verbena, white ...	3/6
50	Dahlia, single, mixed ...	2/-	109	Nasturtium, Tall, scarlet ...	22/-	167	Violet, Sweet, The Czar ...	5/-
51	Delphinium, mixed ...	1/-	110	Nasturtium, T. Thumb, mixed ...	1/4	168	Viscaria cardinalis ...	3/6
52	Erysimum Perowskianum ...	1/3	111	Nasturtium, T. Thumb, scarlet ...	1/8	169	Viscaria oculata ...	2/6
53	Eschscholtzia Californica ...	3/6	112	Nasturtium, T. T., Empress of I. ...	5d	170	Widlenbergia grandiflora ...	1/-
54	Eschscholtzia crocea ...	3/-	113	Nemophila insignis ...	1/-	171	Wallflower, blood red ...	6d
55	Enchardium grandiflorum ...	3/-	114	Nemophila insignis, white ...	1/3	172	Wallflower, mixed ...	6d
56	Forget-me-not, blue ...	2/-	115	Nemophila maculata ...	10/3	173	Zea Japonica, variegata ...	9d
57	Forget-me-not, red ...	2/-	116	Nicotiana affinis ...	1/-	174	Zinnia elegans, double ...	6d
58	Forget-me-not, white ...	1/8	117	Nigella Damascena ...	3d	175	Zinnia elegans, mixed ...	2/6
59	Foxglove, mixed ...	3/-						

# LIST of VEGETABLE SEEDS in PACKETS

No.	Name.	Wholesale Price. per lb.	No.	Name.	Wholesale Price. per lb.	No.	Name.	Wholesale Price. per lb.
1	Artichoke, Green Globe ...	4/-	27	Celery, Superb Red ...	2/6	53	Parsley, Extra Curled ...	1/-
2	Artichoke, Purple Globe ...	5/-	28	Celery, Superb White ...	2/6	54	Parsnip, Hollow-crown ...	8d
3	Asparagus ...	2/-	29	Cress ...	bus. 16/-	55	Radish, French Breakfast ...	1/3
4	Asparagus, Giant ...	1/6	30	Cress, Water ...	8/-	56	Radish, Long Scarlet ...	bus. 30/-
5	Beet, Dwarf Red ...	2/-	31	Cucumber, Hardy ...	14/-	57	Radish, Mixed Turnip ...	32/-
6	Beet, Silver ...	3/-	32	Cucumber, Long Green Prickly ...	8/-	58	Radish, Scarlet Olive-shaped ...	1/-
7	Borecole, Dwarf Green Curled ...	2/6	33	Endive, Batavian ...	4/-	59	Rhubarb ...	2/-
8	Broccoli, Early White ...	2/-	34	Endive, Green Curled ...	3/-	60	Sage ...	3/6
9	Broccoli, Late White ...	3/6	35	Kale, Green Curled ...	3/-	61	Savory, Summer ...	2/6
10	Brussels Sprouts ...	1/6	36	Kohl Rabi, Imperial ...	3/-	62	Savory, Winter ...	4/-
11	Cabbage, Cocoa-Nut ...	3/-	37	Kohl Rabi, Large Purple ...	2/6	63	Savory, Drumhead ...	2/-
12	Cabbage, Enfield Market ...	2/6	38	Leek, Broad Flag ...	2/-	64	Savory, Dwarf Green Curled ...	2/-
13	Cabbage, Large Drumhead ...	1/-	39	Leek, Musselburgh ...	6/-	65	Spinach, Prickly or Winter bus. 10/-	6d per qt
14	Cabbage, Large York ...	2/-	40	Lettuce, Cabbage ...	2/-	66	Spinach, Round or Summer ...	12/-
15	Cabbage, London Market ...	2/6	41	Lettuce, Drumhead ...	2/-	67	Thyme ...	6/-
16	Cabbage, Nonpareil ...	2/6	42	Lettuce, Tom Thumb Cabbage ...	5/-	68	Tomato, Large Red Mammoth ...	4/-
17	Cabbage, Red Pickling ...	3/-	43	Lettuce, White Cos ...	3/-	69	Turnip, Early Stone ...	9d
18	Cabbage, St. John's Day ...	2/6	44	Marjoram ...	3/-	70	Turnip, Nopaul ...	9d
19	Cabbage, Very Large Early ...	2/6	45	Mustard ...	bus. 16/-	71	Turnip, Red American ...	1/-
20	Capsicum, Long Red ...	3/6	46	Onion, Blood Red ...	3/6	72	Vegetable Marrow, Green ...	5/-
21	Carrot, Altringham, per cwt. 100 ...	1/6	47	Onion, Brown Globe ...	7/-	73	Vegetable Marrow, White ...	4/-
22	Carrot, Early Horn ...	1/6	48	Onion, Brown Spanish ...	4/-			
23	Carrot, James' Intermediate ...	1/-	49	Onion, Deptford ...	2/6			
24	Carrot, Long Surrey ...	1/3	50	Onion, James' Keeping ...	5/-			
25	Cauliflower ...	10/-	51	Onion, White Spanish ...	4/-			
26	Cauliflower, Autumn Giant ...	8/-	52	Parsley, Champion Moss ...	1/3			

\* These 10/- per gross.

## IN LARGE POCKETS.\*

74	Beans, French Dwarf ...	18/- p. bus
75	Beans, Scarlet Runner ...	16/- "
76	Lawn Grass ...	14/- "

# THE "WINGED LION" PACKETS OF BIRD SEED.

**P**UT up in Pictorial Cardboard Cases. Makes a most effective display. The Seeds are carefully selected and mixed, and thoroughly cleaned.

PRICE:—1d. Packets, **9/-** gross; 2d. Packets, **15/6** gross; 4d. Packets, **26/-** gross.

# THE "WINGED LION" PACKETS OF LAWN GRASS SEED.

**P**ACKED in Pictorial Cardboard Cases, with Tasteful Design. Our Lawn Grass is eminently fitted for renovating Lawns, Cricket and Tennis Grounds, Grass Plats, &c.  
**FULL INSTRUCTIONS WITH EACH PACKET.**

PRICE:—3d. Packets, **2/3** per doz.; 6d. Packets, **4/-** per doz.; 1/- Packets, **7/6** per doz.

## A NOVELTY.

# THE SHIRLEY POPPY

**T**HIS is one of the most attractive novelties in Hardy Annuals introduced. It is of the Ranunculus flowered family, but the range of color, extending from pure white through the most delicate shades of pale pink, rose and carmine to deep crimson, is so varied that scarcely two will be found exactly alike; whilst to add to the effect, many are delicately edged, shaded and striped.



The form is most beautiful, being generally single or semi-double, as conveyed by the engraving, rendering it a very valuable flower for table and general decoration, as the blooms, though like all Poppies somewhat transient, when cut young will stand for several days without dropping or fading.

In **3d.** Packets, per dozen **2/-**

**SPECIALITIES.****HERBS IN PACKETS.**Packed in  $\frac{1}{4}$  and  $\frac{1}{2}$  gross boxes, Assorted to order.

All Herbs carefully selected and guaranteed best quality.

**PRICE 7/- PER GROSS.**

Descriptive pamphlets, entitled "Popular Herbal Remedies," sent free with order.

HANDBILLS AND SHOW CARDS ALSO SUPPLIED.

**THE FINEST**

And in bulk at lowest prices.

**SEND FOR SAMPLES.**

WINGED



BRAND.

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**SPECIALITIES.****HERBS IN PACKETS.**Packed in  $\frac{1}{4}$  and  $\frac{1}{2}$  gross boxes, Assorted to order.THESE HERBS ARE READY FOR USE.  
AN INDISPENSABLE ARTICLE FOR EVERY HOUSEHOLD.**PRICE 7/- PER GROSS.**

May be had in 6d. screw-cap bottles, 3s. 6d. per dozen. SHOW CARDS SUPPLIED.

**HINGED STOCK TINS.**

Enamelled Black, with Varnished Label.

FOR POWDERS, &amp;c.



Each Tin Labelled to order.

1 lb. size ( $4 \times 4 \times 5\frac{1}{8}$  in. high) **7/6** per dozen.2 lb. " ( $4\frac{1}{2} \times 4\frac{1}{2} \times 6$  " ) **9/-** "

**WHOLESALE BOTANIC DRUGGISTS,**  
5, 6 & 7, RAVEN ROW, ARTILLERY LANE, LONDON, E.

SPECIMEN WORK OF  
THE **TRYPOGRAPH**

Facsimile Printing PRICE FROM 25/-

Full particulars and prices may be seen on the other side

Manufacturers. Zuccato & Wolff  
15, Charterhouse St. London E.C.

The Trypograph is invaluable to Chemists & Druggists  
for the rapid production of  
Circulars, Price Lists, Designs, &c. &c.

Highest Awards at all Exhibitions

— Example of Utility. —

Mess<sup>rs</sup> Jones & Co. are now selling at the following prices.

Holloway's Pills	1/12, 2/9 & 4/6 per box	Pears Soap	4/- 1/6 per Tablet
Sequahs Prairie Oil	1/8 per bot	Enos Fruit Salt	2/9 per bot.
Fennings Whooping Cough Powder	1/12 packet.	Garnello Cherry Blossom	2/- box
Lockyers Hair Restorer	1/6 per bot.	Beechams Pills	9 1/2. 1/12. 2/9 box
Frazers Sulphur Tablets	1/12 packet.	Seigels Syrup	1/12. 2/6 bot.

# NEW MODEL

# TRYPOGRAPH

(ZUCCATO'S PATENT.)

For Printing in Black Ink **ANY NUMBER** of Fac-simile Copies from one Writing.

→ **CHEAP** ♦ **SIMPLE** ♦ **CLEANLY** ♦ **RAPID** ←

## Process.

A SHEET of prepared paper is placed over a finely engraved or corrugated metal plate, and the writing is done with a steel-pointed pencil, the pressure of which causes the engraved surface of the plate to perforate the paper in the lines of the writing, producing a *Stencil*. See Fig. 1.

Note—The pencil may be held in *any position*, and used as freely as an ordinary pen or pencil.

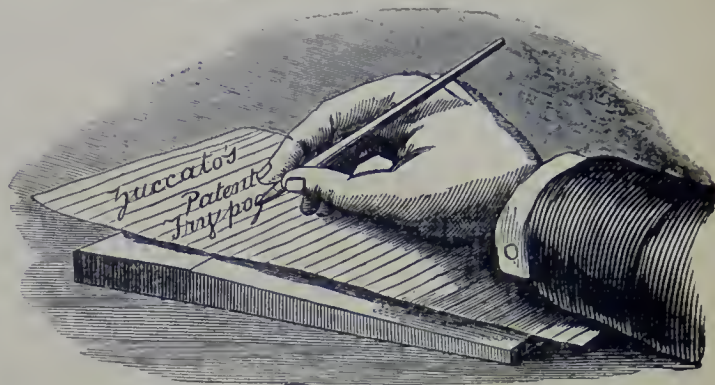


Fig. 1.

The Stencil is then placed on the top of the apparatus, and adjusted by the bars at each end. A sheet of plain paper to be printed on is then placed underneath, and the *inking-scraper* is passed over the surface of the Stencil (see Fig. 2) squeezing the ink through the Stencil or perforations on to the paper underneath, and producing a fac-simile of the original, as shown in Fig. 2. This may be repeated for thousands of impressions, and the Stencil can be preserved and used again at any time.

Note.—The Steel Pencil and Metal Plate with proper usage will last for years, so will the Inking Scraper, which is far superior to the roller (used in some processes), the latter requiring to be frequently renewed.



Fig. 2.

The Trypograph possesses numerous advantages over the many processes which have more recently come into existence, and it remains unrivalled to this day, as it did when it stood alone, the only practical and economical means for rapid reproduction of writings for commercial and other purposes. The steel plate with its 300,000 perforating points will do an almost unlimited amount of work; there is no delicate apparatus or manipulation involved in any part of the process, the appliances cannot possibly get out of order; and a considerably greater number of copies can be printed from one writing, more easily, in less time, and with less trouble than can be obtained by any competing process.

Each Apparatus is made throughout of American Walnut, is self contained and complete, with a supply of materials.

8vo. (Note size) ...	£1 5 0
4to. (Letter size) ...	1 15 0
Foolscap ...	2 5 0
Post Folio...	3 12 0

These machines (8vo excepted) are also made in an extra strong quality and of a superior finish. These contain a larger supply of materials, they are recommended for export, and for their superior appearance.

STENCIL PAPER.								s.	d.
8vo ...	per quire	2	0						
4to ...	"	4	0						
Foolscap ...	"	5	0						
Post Folio ...	"	7	0						

PRINTING INK.								s.	d.
Black (Small) ...	per bottle	2	6						
" (Medium) ...	"	3	8						
" (Large) ...	"	5	0						
Red, Blue, and Green ...	"	4	0						

THE TRYPOGRAPH IS USED IN MOST GOVERNMENT AND PUBLIC OFFICES.

# CHINNERY'S

PATENT PORTABLE IMPROVED

# AÉRATING MACHINES,

*For rapidly Aërating and Serving all kinds of Beverages.*

PATENTED IN GREAT BRITAIN, FRANCE, GERMANY, AUSTRIA, BELGIUM, UNITED STATES OF AMERICA, INDIA, and the COLONIES, &c.

SILVER MEDAL, EDINBURGH INTERNATIONAL EXHIBITION, 1890.

GOLD MEDAL, LONDON FOOD AND COOKERY EXHIBITION, 1890.

Are particularly adapted for—

Hotels and Restaurants,

Railway and all Refreshment Rooms,

Public and Private Bars

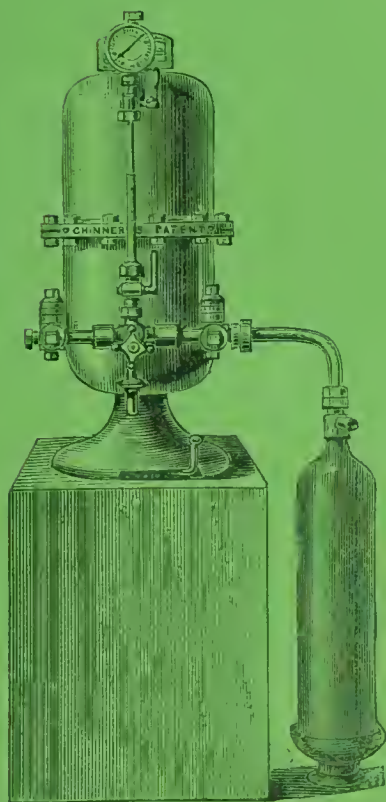
Chemists and Confectioners

Clubs and Military Messes,

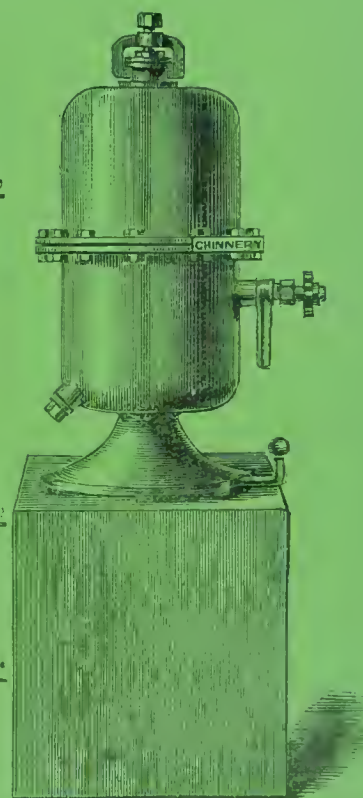
Steam and Sailing Ships and Yachts.

Exhibitions and Hospitals,

Private Entertainments and Families.



*Fitted for Carbonic Acid Gas  
and Chemicals.*



*For Chemicals only.*

*Especially useful to Residents in India, Africa, the Colonies, and all Hot Climates or up Country Stations, where Aërated Beverages are unobtainable, excepting at extreme cost, consequent on difficult and expensive transit and frequent breakage.*

Chinnery & Co.'s Offices :—Leadenhall Buildings, 1, Leadenhall Street, London, E.C.

Chinnery & Co.'s Show Rooms :—10, North Buildings, Eldon Street, Finsbury, London, E.C.

Agents in Scotland :—Christie Bros., 188, St. Vincent Street, Glasgow.

[SEE OTHER SIDE.

# CHINNERY'S PATENT PORTABLE IMPROVED AERATING + MACHINES.

THEIR CHIEF ADVANTAGES ARE:—

ECONOMY—Because their prime cost is fully 75 per cent. less than any other machines of similar capacities.

PURITY—Because they are lined with either glass or enamel.

DURABILITY—Because they are constructed of gun metal.

SAFETY—Because they are tested to an hydraulic pressure of 300 lbs. to the square inch.

RAPIDITY—Because thorough aëration is obtained in a few minutes.

CAPACITY—Because a 12-pint machine is capable of making 60 dozen per day, and by connecting the water main with the machine, the supply of aërated water can be made constant and almost automatic.

ADAPTABILITY—Because they are adapted for either serving direct into glasses, or filling bottles, or charging syphons in anticipation of requirements.

By the use of the purest chemicals, thorough aëration can be obtained at a prime cost of ninepence per five dozen Split Sodas; or Lemonade, Ginger Ale, Soda and Milk, and other Beverages, produced at less than one halfpenny per glass; while, with the aid of Liquified Carbonic Acid Gas thorough aëration can be produced at a cost of from one halfpenny to one penny per dozen bottles.

## ✻ PRICE + LIST. ✻

	Rental per month.	Hire-Purchase System.	Deposits.
A 12-PINT MACHINE, japanned any marble colour, made of Gun Metal, with glass or best white enamel lining, including silver-plated tap and fittings with necessary spanners, and capable of making 60 dozen per day by the aid of chemicals ... ..	£15 15 0	£1 0 0	£17 10 0
A 26-PINT MACHINE, fitted and finished as above, and capable of making 100 dozen per day ... ..	21 15 0	1 10 0	24 0 0
A 40-PINT MACHINE, fitted and finished as above, and capable of making 160 dozen per day ... ..	25 0 0	2 0 0	27 10 0
If all nickel plated, <i>extra</i> ... ..	1 0 0	0 1 0	1 5 0
If fitted for Gas, <i>extra</i> ... ..	2 4 0	0 2 0	2 10 0
If fitted with Bottler, <i>extra</i> ... ..	2 2 0	0 2 0	2 10 0
If fitted with Syphon filler, <i>extra</i> ... ..	2 2 0	0 2 0	2 10 0
If fitted with Water Gauge Glass, <i>extra</i> ... ..	0 10 0		0 10 0

The Rental per month is payable monthly in advance, and the Hire Purchase system is calculated on the basis that the amount of Deposit, plus one year's rental, will amount to the Price on the Hire Purchase system.

All prices are Nett, but when it is elected to buy and pay for a Machine within six months instead of twelve months, a special discount of 5 per cent. will be allowed off the Hire Purchase price.

Chinnery & Co.'s Offices:—LEADENHALL BUILDINGS, 1, LEADENHALL STREET, LONDON, E.C.

Chinnery & Co.'s Show Rooms:—10, NORTH BUILDINGS, ELDON STREET, FINSBURY, LONDON, E.C.

Agents in Scotland:—CHRISTIE BROS., 188, St. Vincent Street, GLASGOW.

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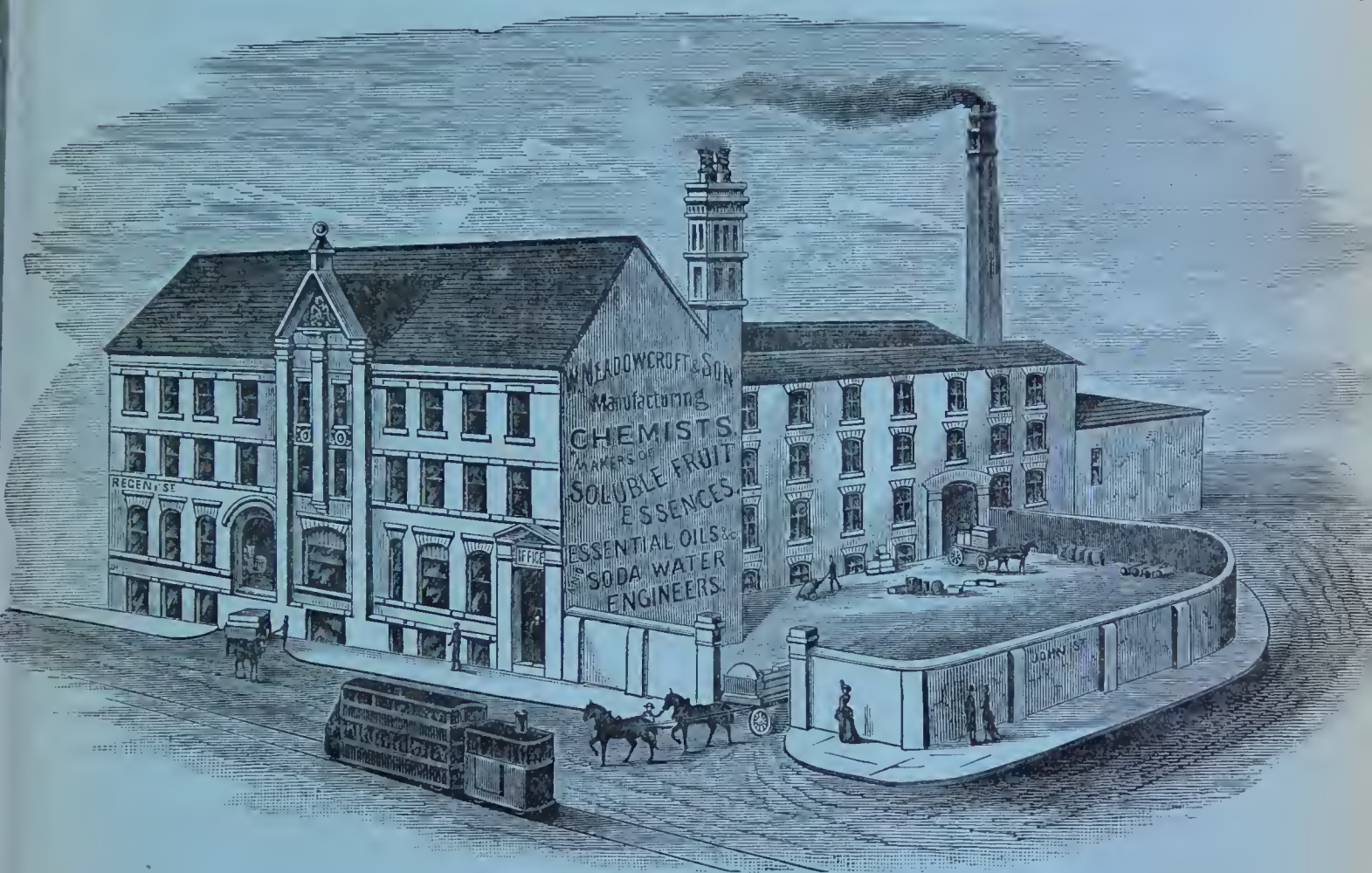
# W. Meadowcroft & Son,

MANUFACTURERS AND IMPORTERS OF

## ✦ SOLUBLE FRUIT ESSENCES, ✦

### Essential Oils, &c.,

And all requisites for the production of High-Class Mineral Waters.



ALSO

## Soda Water Engineers,

Patentees and Manufacturers of the most successful

Steam Bottling Machine, Copper Cavity Pans, Enamelled Iron Pans, Bottle Washing Apparatus, &c., &c.

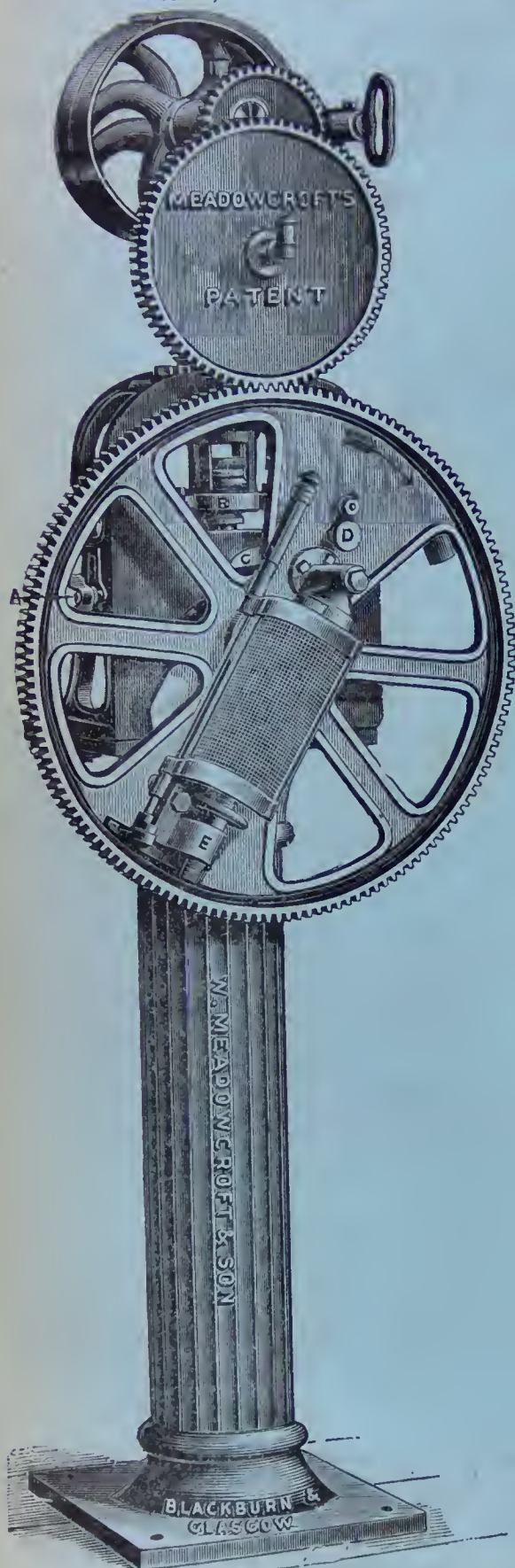
HEAD OFFICE AND WORKS:

*Regent Street,* **BLACKBURN,**  
 .....  
 LANC.

Scotch Office & Showrooms: **50, ROBERTSON STREET, GLASGOW.**

# MEADOWCROFTS'

FIG. I, FRONT VIEW



Fills perfectly 80 to 90 Dozen per hour, with one Lad only.

.....

This Machine has been specially designed to turn out a large amount of work, and at same time be simple enough to be worked with advantage by one lad only.

In principle it is an ordinary hand "turnover" geared for power, and fitted with a most perfect syrup and water saving motion. If the attendant omits to place a bottle in the Machine, the syrup pump and aerated water valves are at once automatically thrown **entirely out of action**, and they then remain **perfectly at rest** until another bottle is fed into the Machine, no matter how long it may run without bottles. This is an entirely new motion, and it not only prevents **all waste of syrup and water**, but also **effectually prevents all straining and wearing of pumps, &c**, which is such an objectional feature in some of the other makes of Steam Fillers.

The process of filling is as follows: Start the Machine by moving the strap on to the "fast" pulley, and then when the bottle holder **E** is at the top, place an empty bottle neck downwards into the Machine, as it revolves it will be gripped by **E** and held in position by a strong steel spring, the guard then automatically closes and the syrup is pumped into the bottle by means of the syrup pump **B**. The bottle is by this time neck upwards, and the cam **H** now comes into play and opens the aerated water valve. Whilst the bottle is filling, it is "snifted" by the opening of snift valve **D**, and every trace of atmospheric air is expelled. The bottle is about three parts full by the time it reaches the position shown in fig. I. When the bottle is full the guard automatically opens and the block **E** is raised by cam **C**, the full bottle is then removed and replaced by an empty one, and so on again.

The motion of the large wheel, by which the bottle is carried round, is not a regular one, but alternately fast and slow, and this peculiar but most desirable motion is obtained by the use of eccentric wheels. The result of this motion is, that ample time is allowed for changing the bottles, and for perfect filling and snifting, during the slow parts of the revolution, whilst the other two quarters being run quickly, a great saving of time is effected, and a gain of about 15 dozens per hour is obtained.

Price complete **£25.** Nett Cash,  
On Rail here.

W. MEADOWCROFT & SON, Blackburn & Glasgow.

# PATENT STEAM FILLER.

The Strongest ! Simplest ! and Cheapest !  
Steam Filler on the Market.

## DESCRIPTION.

FIG. 1.

- A. Syrup Regulating Screw.  
B. Syrup Pump, with glass barrel.  
C. Cam for raising bottle holder E  
D. Snift valve regulator.  
E. Block, or Bottle Holder.

FIG. 2.

- F. Syrup Inlet to Pump.  
G. Water Inlet Union.  
H. Cams for opening Aërated Water Valves, a large one for full size bottles, and a small one for splits.  
I. Sliding Rod, to which two levers are attached, for moving Syrup Pump and Aërated Water Valve in or out of action.

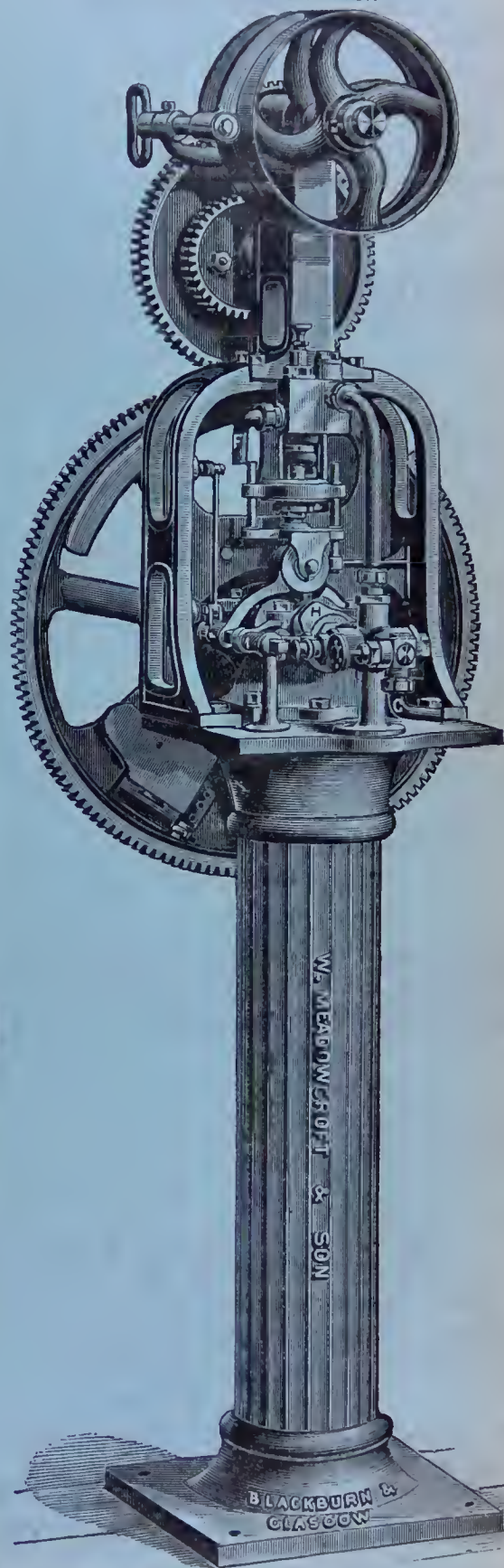
The toothed wheels are effectually guarded by strong cast iron guard, not shown in the engraving.

## ADVANTAGES.

- Fills one bottle at once, and fills it perfectly.  
Absolutely impossible to waste Syrup, &c., through omitting to supply the Machine with bottles.  
Syrup Pump and Aërated Valves go entirely out of action when a bottle is missed.  
No straining of Pump, &c., when saving syrup.  
Filling and snifting is specially arranged for both large and small bottles.  
Wearing parts are cast steel "tempered," and are almost everlasting.  
It is as simple as an ordinary turnover, and five times as strong.  
Stronger than any other Steam Filler, main shaft is solid gun-metal, 2-ins. diameter, and runs in two 2-ins. bearings.  
Weighs about 5 cwt.  
Only one revolving joint, and that an extra strong one.  
Syrup Pump is in full view, is easily regulated, and can be tightened up without pulling in pieces.  
Bottle guard opens and closes automatically, giving free access to the bottles.  
Pulleys and strap high up and out of the way.  
Strap Fork is reversible, and will suit any strap.  
All working parts being made strictly to template are interchangeable.

Price complete **£25.** Nett Cash,  
On Rail here.

FIG. 2 BACK VIEW



W. MEADOWCROFT & SON, Blackburn & Glasgow.

## Concentrated Soluble Essence of Lemon.

Price 7/- per lb.; 50 lbs. 6/6 per lb.

We GUARANTEE this preparation to be **DOUBLE THE STRENGTH** of any of the different makes that are offered at prices ranging from 3/6 to 5/- per lb. It is 25 per cent. stronger than any so-called Concentrated Essences.

*Directions for use:* USE ONLY ONE HALF the quantity required of any other make. By its use you save **AT LEAST** Ten per cent.

## CONCENTRATED Soluble Essence of GINGER ALE, THREE TIMES THE USUAL STRENGTH.

Price 7/6 per lb.; 50 lbs. 7/- per lb.

This Essence is acknowledged to be the **VERY BEST** for the purpose of flavouring Ginger Ale, &c. It imparts the flavour and aroma of the finest Ginger in combination with Lemon, Vanilla, Rose, &c., and produces a beverage with full, rich body, and equal in every respect to the well-known Belfast Ginger Ale.

*Directions for Use:*—Use 4 to 5 drams to each gallon of Syrup, with Acid, Foamine, and Colouring to suit.

## Concentrated Soluble Essence of JAMAICA GINGER.

**T**HIS Essence being prepared from the finest selected Jamaica Ginger by a special process, imparts the true flavour and aroma of the Ginger-root, while at the same time it is both remarkably strong and perfectly soluble. For the preparation of Ginger Champagne, Ginger Beer, &c., it has no equal.

**Guaranteed Pure and made from Finest Ginger only.**

Price 4/6 per lb.; 60 lbs. 4/- per lb.

## ESSENCE HOP ALE, Double Strength.

This Essence, when used in the proportion of from  $\frac{3}{4}$  to 1 ounce to each gallon of syrup, produces a fine tonic beverage, possessing the true Hop flavour and aroma, with a full body, and one which commands a large sale both summer and winter.

Price 6/6 per lb.; 20 lbs. 6/- per lb.

## ANTI-FERMENTING SOLUTION.

We guarantee this preparation to effectually prevent fermentation in Syrups, Cordials, Aerated Beverages, &c. It prevents them from becoming thick and ropy, depositing, &c., and will keep them almost any length of time. Use from quarter to half-ounce to each gallon. Stir the Syrup briskly whilst adding the Solution.

Price 5/- per lb.; 20 lbs. 4/9 per lb.

**W. Meadowcroft & Son,**  
Manufacturing Chemists, and Soda Water Engineers,  
Regent Street, **BLACKBURN,** Lanc., and 50, Robertson Street, **Glasgow.**

# MASON'S

## ORIGINAL

# EXTRACT OF HERBS



**BEWARE** of mean and fraudulent imitations.

**BEWARE** of others copying our title and labels.

**MASON'S** is the original and only genuine EXTRACT.

**MASON'S** is a special compound entirely from Herbs.

**NO OTHER EXTRACT MAKES BEER LIKE IT!**

**ASK FOR MASON'S AND TAKE NO OTHER.**

**NEWBALL & MASON, Botanic Druggists,  
HYSON GREEN WORKS, NOTTINGHAM.**

Telegrams—"EXTRACT, NOTTINGHAM.

ESTABLISHED 1850.

# NEWBALL & MASON,

*Manufacturing Chemists & Botanic Druggists,*

**NOTTINGHAM,**

THE INVENTORS OF EXTRACTS FOR MAKING

## NON-INTOXICATING BEVERAGES

MANUFACTURERS OF

**EXTRACT GINGER ALE**

For Sparkling Ginger Ale.

**EXTRACT OF HOPS**

For Hop Ale.

**EXTRACT OF GINGER**

For Ginger Beer.

**EXTRACT OF DANDELION**

For Dandelion Porter.

**EXTRACT OF HOREHOUND**

For Horehound Beer.

**EXTRACT of SARSAPARILLA**

For Sarsaparilla Porter.

**EXTRACT OF LEMON**

For Lemonade.

**EXTRACT for CIDER**

For Devonshire Cider.

**WINTER EXTRACT**

For Winter Ale.

**MASON'S FOAMINE**

For producing a Creamy Head on all Beverages.

THIS IS SOLD IN BULK.

**SOLD IN BOTTLES, at 6d., 1s., 2s., and 5s. each, with Directions.**

## COMPOSITION ESSENCE

A Superior Article, sold in Bulk. Prices and Sample on Application.

## MEDICINAL HERBS IN PACKETS

The Finest Herbs, and neatly put up. Send for prices and Samples.

Prices, Circulars, Show Cards, &c., on application.

Our Extracts and Essences are not affected by Climate or Weather.

Telegrams—"EXTRACT, NOTTINGHAM."

ESTABLISHED 1850.

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# MASON'S WINE ESSENCES

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These Essences are now having a large sale, owing to their Standard Quality.

IN BOTTLES AT 6d., 1s., and 2s. EACH.

---

BEWARE OF WORTHLESS IMITATIONS !!!

 **ORDER MASON'S.**

---

Ginger is a Special Favourite.

---

All the Leading Wholesale Houses Stock  
these Goods.

---

SOLE INVENTORS—

NEWBALL <sup>AND</sup> MASON

HYSON GREEN WORKS, NOTTINGHAM.

# WINE ESSENCES

MASSON'S

As delicious as  
the Fruit.

Will produce in a few minutes unfermented  
**TEMPERANCE WINE, CORDIALS, and FRUIT  
SYRUPS**, by the simple addition of sugar and water.

GINGER	BLACK CURRANT
STRAWBERRY	RED CURRANT
LEMON SQUASH	SARSAPARILLA
PEPPERMINT	"WARMINE"
JARGONELLE	CHERRY
PINE APPLE	QUININE
LIME FRUIT	COWSLIP
ORANGE	LEMON
RASPBERRY	

TRY  
IT!



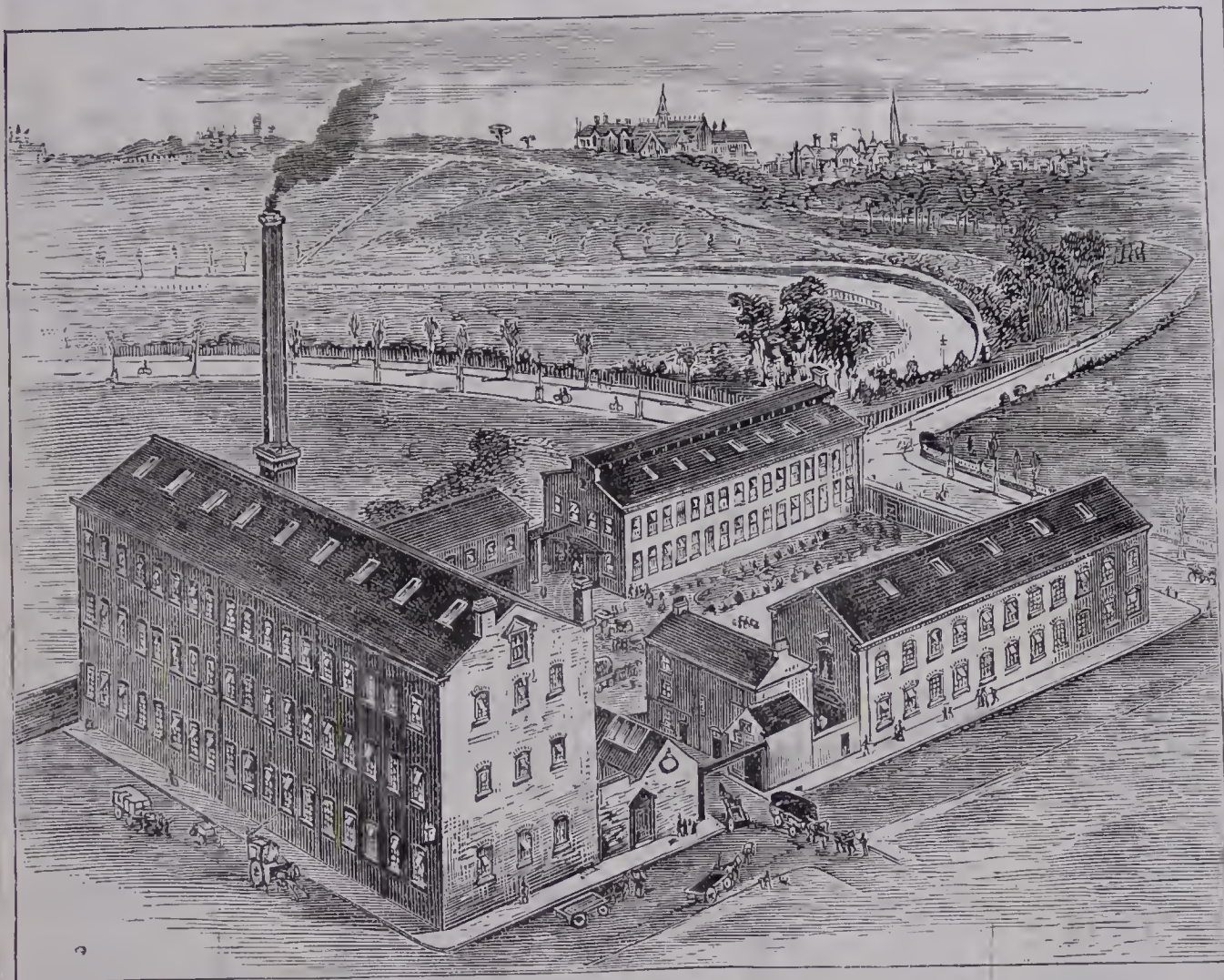
The most suitable  
BEVERAGE FOR  
CHILDREN'S  
PARTIES AND  
Social GATHERINGS

NON-INTOXICATING  
PURE,  
VERY  
REFRESHING.

NEWBALL & MASON, BOTANIC DRUGGISTS,

Hyson Green Works, NOTTINGHAM.

# NOTICE OF REMOVAL



**NEW PREMISES**  
OF  
**NEWBALL & MASON**  
HYSON GREEN WORKS,  
**NOTTINGHAM.**

# CLAUDE RAYNAUD & CO.

MANUFACTURERS AND DISTILLERS OF

Pomade, Extract, Oil, Rose and Orange Flower Water, &c.

SPECIAL DISTILLATION OF

## OIL LAVENDER

("MONT BLANC"),

ROSEMARY, ROSE, GERANIUM, NEROLI, SPIKE, ETC.



Shape of Bottle.  
5 oz., 10 oz., 20 oz. fluid.

MESSRS. CLAUDE RAYNAUD & CO., Grasse, having imported the Lavender Plant from Mitcham, and giving the cultivation of it their special attention, have succeeded in producing an Oil of Lavender which is considered equal to that of Mitcham, and are now prepared to offer it in 1 kilo. bottles, 9/6 per lb. Special quotation for quantities.

EXTRACTS.—Every care is taken in manufacturing our Extracts to suit the English Market.

Silver Medal,  
Paris Exhibition,  
1889.

### SPECIALITIES.

Jockey Club, White Rose, Ess. Bouquet, Wood Violet, Opoponax, Ylang Ylang, New Mown Hay, &c.

SOLE AGENT: G. V. DE LUCA, 6 & 7 LONG LANE, E.C.

Stock kept in London of ORANGE and ROSE FLOWER WATER in Wickered Carboys of 24 litres, and OIL OF LAVENDER in 1 kilo. bottles and upwards.

## Cinderella Pocket & Travelling Lamp

(PROV. PATENT No. 320.)

MADE OF  
SOLID  
METAL,  
NICKELLED,  
AND  
HIGHLY  
FINISHED.



EXACT  
SIZE.

FILLED WITH  
BEST  
KEROSENE  
OR OTHER  
MINERAL OIL  
WILL BURN  
ONE HOUR.

CINDERELLA LAMPS of above shape may be retailed at 1/- to 1/6 each.

„ „ Watch shape „ „ „ 2/- to 2/6 „

PRICES ON APPLICATION.

G. V. DE LUCA, Patentee, 6 & 7 Long Lane, Aldersgate St., London, E.C.

ESTABLISHED

1852.

TRADE

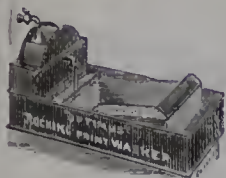
DISCOUNTS TO THE TRADE.

CATALOGUE

POST  
FREE.

# 'OPTIMUS' MARK.

## 'OPTIMUS' ROCKING PRINT WASHER



Water running from a tap revolves the wheel which is connected with the cradle, causing it to rock up and down with each revolution. A syphon is fitted to drain the tank. One hour's washing is ample.

9 in. x 7 in. cradle .. .. .	18/6
11 in. x 9 in. " .. .. .	28/
13 in. x 11 in. " .. .. .	32/
16 in. x 13 in. " .. .. .	39/6
20 in. x 16 in. " .. .. .	50/



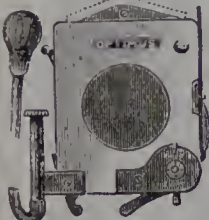
## 'OPTIMUS' BETWEEN SHUTTER LENS

Is arranged to fit the lens mount like a saddle. Exposure is effected by a plunger working between the two combinations of a double lens, or in front of them if preferred. Both pneumatic and hand releases are provided. Exposures varying from  $\frac{1}{3}$  of a second to prolonged may be attained. The working parts are strong, and derangement impossible with a reasonably careful operator. Weight and bulk are reduced to a minimum.

Prices same as Plunge Shutter below.

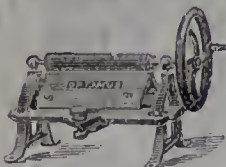
## 'OPTIMUS' PLUNGE SHUTTER (PATENT)

'Mr. J. Traill Taylor exhibited a pneumatic shutter giving exposures of any duration at will, and avoiding all vibration. There was also a small trigger by which exposures could be made. He stated it was one of the best shutters he had seen, and, in reply to a question, said it was made by Perken, Son & Rayment.'—*British Journal of Photography*.



This may be styled the most **PORTABLE** of shutters. It is made either to fit on the hood or may be adapted to act between the lenses of a double. Complete  
To fit  $\frac{1}{4}$  or  $\frac{1}{2}$  plate 'Optimus' Lens 30/ } with  
" 10 x 8" or 12 x 10 " 36/ } Pneumatic  
" 48/ } Release.

## 'OPTIMUS' BURNISHERS FOR PRINTS



The Burnishing Bar is specially hardened. The Frame is of superior and convenient construction. It is Nickel-plated, and of beautiful finish. Each instrument is mounted on a table, with legs.

$\frac{1}{4}$ plate	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{4}$
Price	20/	30/	36/	45/	60/ 90/

## 'OPTIMUS' LAMPS FOR DARK ROOM

Superior Lantern, riveted and turn over joints, fitted with 'Gas Jet,' (or with powerful Paraffin argand burner) adjustable on the outside.



each .. .. . 13/  
Half-round Lamp as below, each .. .. . 7/6



**FOLDING LAMP.**—An inexpensive form of Lamp, having two sides of metal, and the third of red glass. The metal sides are hinged together, so that they fold up for travelling, with the ruby glass protected from fracture by lying between them. Top and bottom triangular pieces—one forming a candle-holder and the other a chimney—complete this clever little arrangement, per dozen .. .. . 30/

## REDDING'S PATENT PORTABLE LAMP.

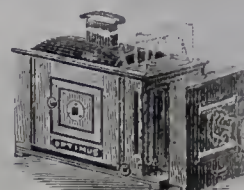
Small, 40/; Medium, 54/; and Large, 72/ per dozen.  
CANDLES for above, Small, 28/; Large, do., 42/ per gross.

## 'OPTIMUS' ENLARGING APPARATUS.

This Apparatus comprises superior Mahogany Body Lantern and long Bellows. Camera adjusted by **PATENT QUICK ACTING RACK** and Pinion. The Lantern is fitted with powerful Refulgent Lamp, with 3 wicks, giving brilliant illumination. Compound Condensers.

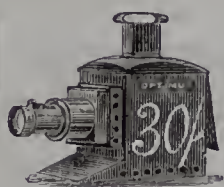
If with Russian Iron instead of Mahogany Body.

CONDENSER.		CONDENSER.	
5-in. no front lens	100/-	5-in. no lens	75/-
5 " with "	127/-	5 " and "	102/6
6 " no "	133/-	6 " no "	87/6
6 " with "	151/-	6 " and "	115/3
7 " no "	155/-	7 " no "	110/-
7 " with "	173/6	7 " and "	137/9
8 " with "	256/-	8 " no "	160/-
9 " with "	290/-	9 " "	210/-
10 " with "	360/-	10 " "	285/-
12 " with "	580/-	12 " "	450/-



## 'OPTIMUS' MAGIC LANTERNS.

Adapted for use with Limelight. For dissolving, 2 Lanterns are necessary. Each Magic Lantern is efficient for exhibitions. The Lens gives crisp definition, being a superior Achromatic Photographic Combination (large diameter black lens), with rack and pinion. It is fitted to a telescopic lengthening tube, so gaining increased focal accommodation. The Condenser is composed of two plano-convex lenses of 4 inches diameter. The refulgent lamp has 3 wicks (or 4 wicks 2/ extra), yielding a brilliantly illuminated picture. Each is complete in box.



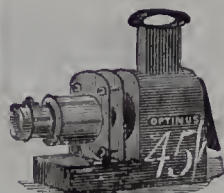
Japanned Metal Body, 30/.



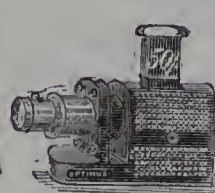
Student's Lantern (to take demonstrating tank), with finished Brass Sliding Tubes 40/.



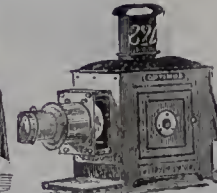
Mahogany outside Body, Japanned Metal Stages, and Sliding Tubes, 42/.



Russian Iron Body, Brass Sliding Tubes, 45/.



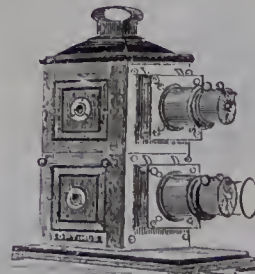
Perforated Russian Iron Body, Brass Sliding Tubes, 50/.



Mahogany outside Body, Panelled Door, Brass Stages, and Sliding Tubes, 82/.

## 'OPTIMUS' BI-UNIAL LANTERN.

Panelled Mahogany Body and Moulded Foot, picked out with Black, Japanned Stages and Tubes, Achromatic Photographic Front Lenses, Compound Condensers £5 12 0  
Ditto, with Brass Stages and Sliding Tubes .. .. . £8 8 0



## 'OPTIMUS' TRIPLE LANTERN.

All Brass Mounts £14 10 0  
Lantern Photographs—Plain, 12s.; Coloured, 18s. 6d. doz.

## 'OPTIMUS' MAGNESIUM RIBBON LAMP, 5/-

*British Journal of Photography*, Nov. 7th, 1888:—'It is a neat little thing, not greatly exceeding the dimensions of an old-fashioned watch, and projects a powerful beam of light.'



# PERKEN, SON & RAYMENT,

99 HATTON GARDEN,  
LONDON.

# MAKERS.

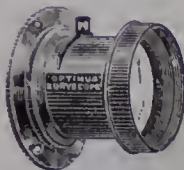
Established  
1852.

DISCOUNTS TO THE TRADE.

CATALOGUE  
and DISCOUNTS ON  
APPLICATION.

# OPTIMUS

## 'OPTIMUS' RAPID EURYSCOPE.



The Aperture is F/8. The Lenses are of Special Optical Glass constructed with the highest precision of curvatures, so maintaining good marginal definition, coupled with the most extreme rapidity.

To cover	5x4	7x5	8x5	9x7	10x8
Focus	5 1/4	8 1/2	10	12	14 inches.
	63/-	94 6	110/-	126 -	220/-

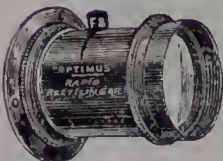
## 'OPTIMUS' WIDE-ANGLE EURYSCOPE.



(Double), F/9.50. This aperture is exceedingly open for wide angle work. The definition, however, is in no way sacrificed, as the curvatures are most perfectly a curve, and the minute detail in architectural and interior subjects is rendered with the maximum of crispness and a total absence of distortion.

To cover	.. 5 x 4	7 x 5	9 x 7	10 x 8
Focus	.. 4	5 1/4	7	7 3/4 inches.
	63/-	94 6	126 -	220/-

## 'OPTIMUS' RAPID RECTILINEAR.



F/8. Second only to the above for Rapidity, therefore well suited for instantaneous effects, outdoor groups and views, as well as interiors; copying and enlarging are also within the capabilities of this lens. In fact, its work may be styled UNIVERSAL.

	5	6	7	8	9	10	12	15	18
Focus	5 1/4	6 1/2	8 1/2	10	12	14	18	20	25 in.
	33 -	45 -	49 6	64 -	82 6	127 6	142 6	180/-	225/-

## 'OPTIMUS' WIDE-ANGLE SYMMETRICAL.

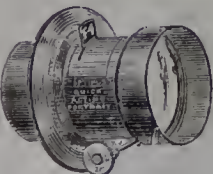


Works F/16. Specially adapted for Architecture.

Can be used to advantage when very close to the subject.

	5	7	9	10	12	15	18
Focus	.. 4	5 1/4	6	7	8	10	12 in.
	39/-	52 6	82 6	127 6	142 6	180/-	225/-

## 'OPTIMUS' QUICK-ACTING PORTRAIT.



Works F/4. Specially constructed for short exposures in Portraiture. They are second to none, definition being maintained by their perfect optical qualities.

Diam.	.. .. 2 inches.	2 1/2 inches.	3 1/2 inches.
Equiv. Focus	.. .. 6 1/2	8	10 in.
Price	.. .. 90/-	120/-	180/-
	1 B	2 B	3 B

'The "OPTIMUS RAPID EURYSCOPE," manufactured by PERKEN, SON & RAYMENT. With full aperture of 1 1/2 in. (its equivalent focus being 11 in.) it defines with EXTREME BRILLIANCY, and when used with a stop it easily covers a 10 by 8 plate to the corners, which is larger than that engraved on the mount as its possibility. Working as it does with such a LARGE APERTURE (F/8 approx) it serves as a portrait and group Lens, as well as a landscape and copying objective. There is no doubt of its proving a most USEFUL LENS.'—J. TRAILL TAYLOR.—*British Journal of Photography*.

'We are pleased to find upon trial that the Lens ("Optimus" Rapid Rectilinear) sent for review is really an EXCELLENT instrument.'—*Photographic News*.

PORTRAIT LENS.—'The "OPTIMUS LENSES" are MODERATE in PRICE, and yield most EXCELLENT results.'—*Amateur Photographer*.

## SPECTACLES

Best Quality—Glass or Pebbles. Oculists' Prescriptions accurately and promptly executed.



## POCKET BAROMETERS,

with scale for Heights, 65/-



PEARL OPERA.

25/-



LEATHER OPERA.

25/-

## 'OPTIMUS' ECONOMIC FIELD-GLASS.

Small Size	.. ..	} 21/-
Clear Definition	.. ..	
Good Field of View	.. ..	
Magnifying 16 Times	.. ..	



## 'OPTIMUS' 'SCORER'

is unrivalled for excellence and cheapness. It shows the number of people in Boats four miles distant, sea birds one mile distant, and Bullet-marks on Target at 600 yards. Magnifying 25 times.

30/-



## 'OPTIMUS' SCOUT.

Medium Size	.. ..	} 70/-
Clear Definition	.. ..	
Good Field	.. ..	
Bullet Marks 5,200 yards	.. ..	
High Magnifying Power (64 times)	.. ..	



## 'OPTIMUS' BINOCULAR

OR

## DOUBLE TELESCOPE.

This Instrument has Bending Bar for Exact Visual Adjustment	.. ..	} 100/-
The Size is Moderate	.. ..	
The Definition is Crisp	.. ..	
Very high Magnifying Power (144 times)	.. ..	

If with Shades as Diagram } 125/-



For General Excellence, Definition, and Magnifying Power we invite intending Purchasers to test our Field and Opera Glasses against any in the world.

# PERKEN, SON & RAYMENT,

99 HATTON GARDEN,  
LONDON,

# MAKERS.

ESTABLISHED  
1852.

DISCOUNTS TO THE TRADE.

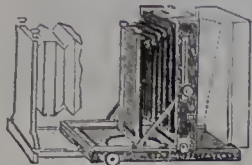
CATALOGUE

POST  
FREE.

TRADE

**'OPTIMUS' MARK.****'OPTIMUS' WIDE-ANGLE CAMERA**

(LONG FOCUS).



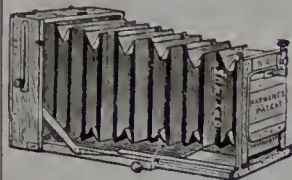
Price, including 3 Double Dark Slides.

4½ by 3½	5 by 4	6½ by 4½	8½ by 6½	10 by 8	12 by 10	15 by 12
140/-	146/-	165/-	188/-	235/-	288/-	350/-

'This Instrument possesses every possible advantage, being very light, very rigid, and very portable. The focussing screen and body may be brought towards the front of baseboard so as to prevent obstruction when using lenses of wide angular aperture and short focus. It is provided with double swing arrangement and long focussing (rack) adjustment. When closed the lens may remain attached to its proper position (the front) and project through the TURNABLE in the baseboard.'—*Invention.*

**RAYMENT'S CAMERA** (LONG FOCUS).

Price includes 3 Double Dark Slides.

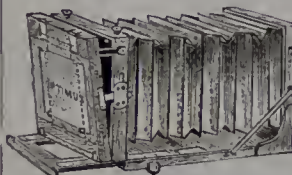


4½ by 3½	6½ by 4½	8½ by 6½	10 by 8	12 by 10	15 by 12
120/-	145/-	168/-	212/-	258/-	314/-

'The "Rayment" Camera in particular claims attention, both for its BEAUTY OF WORKMANSHIP and for the EASE and READINESS with which it can be put into action.'—*The Camera.*

**'OPTIMUS' CAMERA (LONG FOCUS).**

Price includes 3 Double Dark Slides.



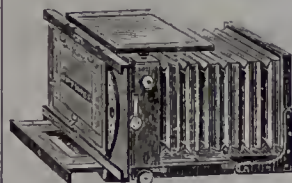
4½ by 3½	6½ by 4½	8½ by 6½	10 by 8	12 by 10	15 by 12
130/-	137/-	175/-	227/-	275/-	333/-

'I should strongly recommend Rayment's Camera. It is LIGHT, COMPACT, very RIGID, and extends to about double the usual focus.'—*Amateur Photographer.*

**'OPTIMUS' STUDIO CAMERA**

(LONG FOCUS).

With Repeating Frame, Masks, and one Single Dark Slide, Rack Focussing, and Rack Swing.



6½ by 6½	8½ by 8½	10 by 10	12 by 12	15 by 15
145/-	188/-	225/-	265/-	325/-

'Invited to say if, in our estimation, the Studio Cameras of Perken, Son & Rayment could be improved in any way whatever for the purpose for which they are intended, we must answer, "No!"'—*British Journal of Photography.*

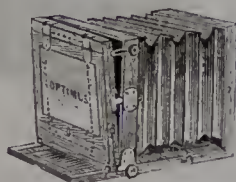
**PORTABLE (A.R.) CAMERA.**

COMPACT, RIGID, INEXPENSIVE, EXCELLENT FINISH.

This Instrument has Leather Bellows, and is fitted with hinged Focussing Screen, adjusted by Rack and Pinion, Square Reversing Back, so that horizontal or vertical pictures may be taken without removing Camera from Stand. (Double Swing.)

Price of Camera, including 3 Double Dark Slides.

4½ by 3½	5 by 4	6½ by 4½	8½ by 6½	10 by 8	12 by 10	15 by 12
85/-	87/-	98/-	125/-	150/-	200/-	260/-

**'OPTIMUS' PORTABLE FOLDING CAMERA.**

CHEAP, STRONG, SERVICEABLE, AND EFFICIENT.

Durable, Bellows, hinged Focussing Screen with sliding adjustment, readily and securely held in exact position by means of a pinion passing through the body nearest bottom or baseboard, and having milled-head screws on either side of the instrument to clamp tight.

Camera and one Double Dark Slide.

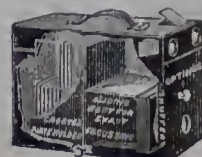
4½ by 3½	5 by 4	6½ by 4½	8½ by 6½
21/-	24/-	39/6	48/-



Telescopic, with sliding leg adjustment, rigid ..	s. d.	s. d.	s. d.	s. d.
Folding Ash, with Bayonet joint, 'E.P.' very rigid ..	8 6	9 6	10 9	16 9
Telescopic Ash, with sliding leg adjustment, 'Maudsley' pattern ..	9 9	10 9	12 6	20 3
Telescopic Ash, 3 fold, as sketch ..	18 6	19 9	20 9	24 9
'OPTIMUS' Stand, very rigid, and much recommended for large sizes ..	—	22 0	24 0	29 0
Pine Studio Stands with rack ..	—	15 0	16 0	22 6
Mahogany ..	—	—	—	43 9
4-fold, very portable, 16 inches when folded ..	—	—	—	78 9
	—	20 0	25 0	—

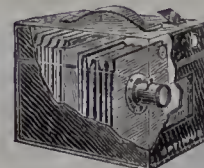
**'OPTIMUS' MAGAZINE CAMERA.**

Pictures 4½ by 3½ inches.

Carries  
Twelve  
Dry Plates.Plates changed  
by turning a  
Button.No Dark  
Slides.The most  
convenient yet  
invented.

Twelve dry plates are placed to the upper portion of the grooved travelling reservoir. The bases of these plates rest upon the top of the Camera body. The grooved reservoir recedes gradually from the Exposure Chamber when the pinion is revolved—allowing one plate at a time to fall in its groove to the bottom half of the reservoir, and so place its sensitised surface within the Exposure Chamber opposite to the Lens, and exactly in true focussing register. The twelve plates may, if desired, be exposed in as many seconds. There is no possibility of the plates sticking. The Shutter is suitable and convenient.

With Rapid Rectilinear Lens, working at F.8 £6 6 0  
With Rapid Euryscope, working at F.6 .. 7 7 0

**'OPTIMUS' DETECTIVE CAMERA.**

The Shutter is arranged for exposures of any duration not less than 1/100 of a second. The Shutter and Camera occupy so little space that six Double Dark Slides, accommodating twelve Dry Plates, can be carried, in addition to a Focussing Screen. A panel slides up at the end of the box, displaying the screen for focussing. The exactness in focussing is simple, and the position is maintained by a secure clamping arrangement. A similar sliding panel is fitted to the front end, which completely hides the lens. The exterior is covered with leather, and measures 9½ by 5½ by 7½. (Negatives 4½ by 3½.)

Prices same as Magazine Camera above.

**'OPTIMUS' SETS OF PHOTOGRAPHIC APPARATUS.**

Fitted complete in Cabinet, with Tripod Stand.  
Quarter Plate Size (4½ x 3½) .. .. £1 16 0  
Half Plate Size (6½ x 4½) .. .. 3 10 0  
Quarter Plate Size, as diagram .. .. 2 5 0  
Half Plate Size .. .. 5 0 0  
Superior Camera, Rack and Pinion  
Focussing Adjustment—  
Quarter Plate .. .. 3 8 0  
Half Plate .. .. 5 15 0  
Whole Plate .. .. 9 10 0

**PERKEN, SON & RAYMENT,** 99 HATTON GARDEN, **MAKERS.**  
LONDON,

CATALOGUE  
POST FREE.

# 'OPTIMUS'

MARK.

**PERKEN, SON & RAYMENT,** 99 HATTON GARDEN,  
LONDON, **MAKERS.**

# PURE ESSENTIAL OILS

<b>BERGAMOT</b>	-	-	-	14/3 per lb.
<b>LEMON</b>	-	-	-	9/3 "
<b>PORTUGAL</b>	-	-	-	7/4 "
<b>BIGGARADE</b>	-	-	-	10/9 "
<b>MANDARIN</b>	-	-	-	30/6 "
<b>LIMETTA</b>	-	-	-	15/3 "
<b>GEDRINO</b>	-	-	-	30/ "
<b>FINEST FLORENCE ORRIS ROOT</b>				98/6 per cwt.

Subject to the Fluctuations of  
the Market.

P. M. & Sons, having a large connection in France for their Pure Essential Oils beg to offer to the English Market the same quality Oils at above prices.

To suit the requirements of buyers, cheaper quality Oils can also be supplied, adulterated with a liquid free from odour (no Turpentine used).

The high price of this season's Oil is on account of the damage to the crop by an insect known as "Pidocchio," causing much waste before the extraction of the oil.

**P. MERLINO & SONS,** 6 & 7 LONG LANE, ALDERSGATE STREET, **LONDON, E.C.**  
And at **PARIS.**

## PURE TUSCAN OLIVE OIL

Of the Finest Quality (New Season's Oil now ready). In Casks, Jars, Tins, and White Glass Bottles.

PRICE LIST ON APPLICATION.

**G. V. DE LUCA,** 6 & 7 Long Lane, Aldersgate Street, **LONDON, E.C.**

TELEPHONE, No. 7522

TELEGRAPHIC ADDRESS—"IDRIS KENTISH TOWN."

# IDRIS & CO.

The Largest Syphon Fillers in the United Kingdom.

**SODA.** Brilliant, Pungent, and Sparkling.

**POTASH.** Prepared according to the British Pharmacopœia.

**SELTZER.** Pure and Delicious Table Water.

**LITHIA** of guaranteed strength.

**LEMONADE.** Pure fruity flavour of ripe Lemons.

**PURITY.** Water filtered by a special process, by which absolute purity is guaranteed. Distilled water used as required. Pure Chemicals only employed. All Goods are regularly subjected to strict analysis.

**ELEGANT SYPHONS.** Best Block Tin or Silver-plated Tops. IDRIS & Co. make their own Syphons, and can therefore guarantee freedom from deleterious metal.

**LOWEST PRICES** for Water, both in Syphons and Bottles. Write for Price List.

**PROMPT DELIVERY** by our Vans in London and Suburbs. Customers called on regularly once or twice a week. Country orders despatched same day as received.

IDRIS & CO. now supply a larger number of the London Hospitals, Public Institutions, and Chemists, than any other Manufacturers, which is in itself a sufficient guarantee of the excellence and purity of the Waters supplied by them.

"I have examined the Mineral Waters prepared by IDRIS & CO., and find that in regard to Chemical purity and brilliancy, they are unsurpassable."

JAMES EDMUNDS, M.D., M.R.C.P. Lond., &c.

Medical Officer of Health and Public Analyst to St. James's, London.

# IDRIS & COMPANY,

KENTISH TOWN, LONDON, N.W.

# NEW ESS. LEMON, ORANGE, ETC.

---

IT is with great pleasure that we have again the opportunity of addressing our numerous friends on the subject of **NEW ESSENCE OF LEMON.**

It is now two years since it was our privilege to inform the trade that we had started a factory in Messina, for the manufacture of the above article. As we fully expected, our bold venture caused our competitors, both here and elsewhere, to raise an opposition against us of a most bitter, unfair, and unscrupulous character. We venture to think that nothing could have been more satisfactory to ourselves that this opposition was raised, for, instead of doing us the injury that was intended, it has been the means of drawing the attention of buyers to our article, thereby causing a considerable number of Consumers with whom we had not hitherto done business to consider the advisability of trying our quality, with the result that they have found it, as we have so emphatically stated on previous occasions, of **vast superiority over anything that has been shown on this or any other market.**

We can boast of a success in our **"W. J. B. SPECIALITY ESSENCE OF LEMON"** such as we did not dare to anticipate, our sales during the last season having far exceeded our calculations. But the point upon which we are specially elated is, consumers are more and more becoming fully acquainted with its superiority, and those who have hitherto purchased the lower qualities from us and others, after due examination, are one by one being convinced of its advantages and converted to its use. What then are its great qualifications? Simply that it is made carefully and well, from **SELECTED FRUIT ONLY AND ABSOLUTELY PURE.** Although somewhat higher in price than the qualities usually called "the best," its greater strength makes it cheaper in use, imparting, at the same time, a far superior flavour.

With regard to the ordinary commercial qualities, we claim also to be exceptionally placed; being on the spot we are enabled to take advantage of favourable markets.

Finally, we wish to mention a few words on the prospect of the crop, which, we regret, does not seem at all brilliant at present. Our friends will no doubt have seen, by our various market reports, the crop of lemons is now ascertained to be unusually limited, and the quality of the fruit being exceptionally good, a larger quantity than usual will be used for packing. Therefore, in the absence of "refuse lemons," from which the ordinary Essence is made, both Essences and Lemon Juice must be dearer as the season advances; anything like a repetition of last year's figures is out of the question.

We have received overland by Grande Vitesse a small copper, the first manufactured this season at our works, Villaggio Gazzi, Messina, and the exceptional quality of the fruit this year will enable us to offer a **PERFECT ARTICLE.**

One of our partners is in Messina as usual, superintending the manufacture.

**W. J. BUSH & CO.**

ARTILLERY LANE, LONDON.

**TO AERATED WATER MANUFACTURERS**

# HAY'S SOLUBLE ESSENCES

REGISTERED

ARE GUARANTEED TO BE THE FINEST IN THE MARKET

ESSENCES OF GINGER, LEMON, ORANGE &c.

HOP ALE AND GINGER ALE ESSENCES.

Besides GOLD & SILVER Medals, these Essences have obtained the HIGHEST TESTIMONIALS from all the Medical Journals & from the Principal Trade Journals in this & other Countries.

**W. HAY, MANUFACTURING CHEMIST BEVERLEY RD. HULL**

PRICE LISTS FREE ON APPLICATION.

## SYPHONS : SELTZOGENES



**SODAWATER MACHINERY**

AND APPLIANCES

**BRATBY & HINCHLIFFE LTD**

ANCOATS & 146 MINORIES

**MANCHESTER & LONDON EC**

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving our works.



### PRICES.

SYPHONS ... 1/6 1/8 and 1/10 each.

### SELTZOGENES.

1	2	3	4	5	8 pint.
5/6	6/2	7/	8/	9/11	15/6 each.

**LONDON:**  
45 GIFFORD  
STREET, N.

TRADE

# "CAMWAL"

## TOPS THE TRADE

**HARROGATE,  
BRISTOL.**

MARK.

TELEPHONE

NO.

7547.

ONLY PRIZE MEDAL



LONDON, 1881.

RAISED BY THE  
PERSISTENT ENERGY  
AND GREAT CARE  
OF CHEMISTS

Year	No. of Members	Dividend
1878	119	None
1879	350	None
1880	430	None
1881	540	None
1882	615	3½
1883	708	6

TELEGRAPHIC

Chemists Starbeck Harrogate



HIGHEST PRIZE MEDAL



BRADFORD, 1882.

Telegraphic  
Address  
"RUBINE  
LONDON."

STRENGTHENED AND  
SUPPORTED BY THE  
APPROBATION OF THE  
MEDICAL PROFESSION

Year	No. of Members	Dividend
1884	908	6
1885	1,193	6
1886	1,463	6
1887	1,612	7½
1888	1,892	6
1889	2,031	7½

ADDRESSES

Chemists Sun Factory Bristol.

**INCREASE OF SALES.**—The Sales for the Half-year ending March 31, 1890, show an increase of 30 per cent. over the corresponding period of previous year.

This Company manufactures the various descriptions of Mineral Waters of the highest class and of specified formula, and now numbers over 2,000 Members. Good Dividends.

### PRICES.

	In Corked Bots.	In Syphons.		In Corked Bots.	In Syphons.
Carbonated Water .. ..	1/-	1/8	Lime Juice .. ..	1/-	2/6
Soda .. .. 5 Grains to Half-Pint	1/-	1/8	Ginger Ale .. ..	1/-	2/6
Soda .. .. B.P. 15 .. ..	1/-	1/8	Ginger Beer, (Glass .. ..	1/-	2/6
Potash .. .. 6 .. ..	1/-	1/8	Lithia, B.P., 5 grains to Half-pint	1/6	2/6
Potash .. .. B.P. 15 .. ..	1/-	1/8	Iron and Quinine Water .. ..	1/6	—
Seltzer .. ..	1/-	1/8	Mineral Acid .. ..	1/6	—
Lemonade .. ..	1/-	2/8			

Syphons, 24s. per dozen.

Cases—3 dozen 3s. 6d.; 4 dozen 4s. 6d.; 6 dozen 5s. 6d. each.

Empties allowed for at same prices.

3d. per dozen charged extra for the delivery of Syphons in London.

### SYRUPS.

In 26-oz. bottles, handsomely labelled and capsuled. Raspberry, Strawberry, Cherry, Red Currant, Black Currant, Pine Apple, &c., 8/- per dozen. Lime Fruit Cordial, 8/- per dozen. Bottles charged 1/- per dozen, and allowed for on return.

A holder (Chemist) of £1 share is entitled to all the advantages of this Association.

SAMPLE CASE OF WATERS SENT FREE.

Handbills with Name and Prices supplied gratis to Shareholders.

**The Chemists' Aerated and Mineral Waters Association, Limited,**  
**LONDON, HARROGATE, & BRISTOL.**

**JEWSBURY & BROWN'S**  
(MANCHESTER)  
**SPARKLING TABLE WATERS,**  
UNRIVALLED FOR PURITY AND QUALITY.

SODA WATER.  
SELTZER WATER.  
POTASH WATER.  
LITHIA WATER.  
SIMPLE  
AERATED WATER.



LEMONADE.  
GINGER ALE.  
QUININE TONIC.  
GINGER BEER.  
HOREHOUND BEER.

**EXTRACTS FROM ANALYTICAL REPORTS.**

"The examination of the Waters which I have made has satisfied me that they have been prepared with the greatest care, and are of excellent quality."

FRANCIS JONES, F.R.S.E., F.C.S.

On the whole, I have no hesitation in stating that your Aerated Waters are of the highest standard of purity which is practically attainable."

LOUIS SIEBOLD, F.I.C., F.C.S.

"The Lemonade is, for flavour and general excellence, superior to any similar compound which I have examined, and contains no acid but Citric Acid."

"I took a sample of the water used in your manufactory, in the preparation of the Aerated Waters, and found it, as was the case with the completed compounds, entirely free from lead, copper, or any injurious matter whatever."

C. ESTOURET, F.C.S., F.C.I.

J. & B.'s Syphons are mounted with **PURE BLOCK TIN**, thus ensuring absolute immunity from dangerous metallic contamination  
**CARRIAGE PAID AND ON RETURNS.**

**113 MARKET STREET, and 44 DOWNING STREET, MANCHESTER.**



**ARE YOU GIVING A PARTY THIS WINTER?**

If so, you will want something for your guests to drink. They will appreciate your kindness if you provide some Temperance Wine made from our Essences—Orange, Lemon, Raspberry, Ginger. "As delicious as the fruit."

**MASON'S WINE ESSENCES.**

Most refreshing at children's parties and all social gatherings. Non-intoxicating, pure, and very refreshing.

Try a few dozen; a good assortment of advertising matter is sent out with each order.

**NEWBALL & MASON, Botanic Druggists, NOTTINGHAM.**

LIBRARY

# PHOSPHO-CITRIC ACID

Is the only **PURE**  
acidifying principle that  
has ever been offered  
to the Mineral Water  
Trade.

Price 10d. per lb. Write for Sample.

Read the following unsolicited  
Testimonial.

**HASSALL & CO.**  
King's Cross,  
LONDON.

**GOLD MEDAL**  
AWARDED AT THE INTERNATIONAL FOOD AND HEALTH EXHIBITION, LONDON, 1890,  
**FOR PURITY AND EXCELLENCE.**

**GOLD**  
FOR PURITY

Messrs. HASSALL & CO.

Gentlemen,—

Kindly forward  
another 18-Gallon  
Cask of Phospho-  
Citric Acid. We con-  
gratulate you on your  
recent improvement,  
for samples of our Waters  
were sent to one of the  
first Hospitals in the West  
End made from yours and  
Citric Acids, and yours was  
chosen as the purest and best.  
We have now discarded Citric,  
and you are at liberty to mak  
use of this if you think proper.

Yours faithfully,  
**THOMAS MAYO & CO.**

AVOID TRADE APES AND THEIR WORTHLESS IMITATIONS.

**EXPORT** TRADE MARK

**THE DRINK** over all others **FOR WINTER!!!**

**EXCELLENT**  
IN EVERY  
**RESPECT.**

**GINGER**

**PERFECT AROMA, BODY & KEEPING PROPERTIES.**

PREPARED SOLELY BY  
**AINSWORTH, CLAYTON  
& JOWETT.**  
Pharmaceutical & Wholesale  
**CHEMISTS.**

**ALE**

**ESSENCE.**

**LIVERPOOL & BLACKBURN.** TRIAL SAMPLE, POST FREE.

**“PREMIER BRAND”**  
**ESSENTIAL OILS.**

Concentrated Fruit Essences—Soluble

MANUFACTURED BY

**JOHN CUMMOCK**

*Who has received Hundreds of Unsolicited Testimonials, also THREE GOLD MEDALS,  
besides other Honours.*

Chemists manufacturing their own Aërated Drinks should write for Prices and Samples of the following:—

ESSENCE “SPARKLING LIMETTA”—Soluble “Essence of Lemon”

ESSENCE “LEMON SQUASH”—Essence for Sherbet

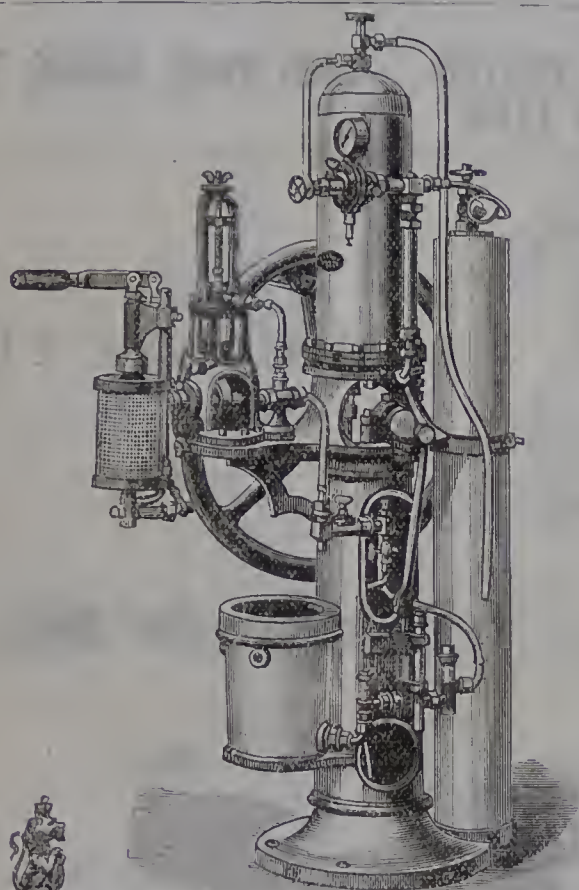
ESSENCE “TONIC HEADING”—Essence for Ginger Ale

**AND COMPARE WITH OTHER MAKERS.**

Manufactory & Offices: **45 ROPE WORK LANE, GLASGOW.**  
LATE 32 MAIN STREET.

# SODA-WATER MAKING

## With Liquefied (So-called Natural) Carbonic Acid Gas.



The "Compact" Machines are designed where space is an object and for those having a large retail trade, for filling Bottles or Syphons, and are fitted on the one end with either the "Reliance" Syphon Filler or the "Excelsior" Machine for filling Patent Bottles

No. 1 Size "Compact" Soda-water Machine complete, as shown, comprises a Niagara Cylinder, mounted, complete with all fittings, Reducing Valve, and a Bottling Machine for Syphon Bottles or for Patent Bottles, the latter fitted with Syphon Pump, the whole mounted on a massive cast-iron frame, fitted with shaft, flywheel, with fast and loose pulleys, for steam or other power, and also handle for hand-power.

By opening one of the iron vessels, and setting the Reducing Valve to the required pressure, a stream of gas is let into the Cylinder; pumping the water into the Cylinder by means of the flywheel may then be commenced, and as soon as it shows in the Water Gauge, bottling may be started, and continued while the water pump is being worked. About 50 dozen bottles per hour can be bottled with ease by hand-power.

Price complete, **£55.**

No. 2 Size ditto ditto, with a producing capacity of 25 dozen bottles per hour—

Price complete, **£38.**

**LIQUEFIED CARBONIC ACID GAS**, in iron vessels containing 28 lbs., which is sufficient to aerate 20 gross of waters, or 3,000 to 4,000 draughts from the Pillar Fountain, as shown below, **10/-** each.

### *Specimens of Testimonials we are receiving from users of the "Compact" Machine.*

From A. THOMPSON, Esq., M.P.S., The Putney Drug Stores, 98 High St., Putney, S.W.

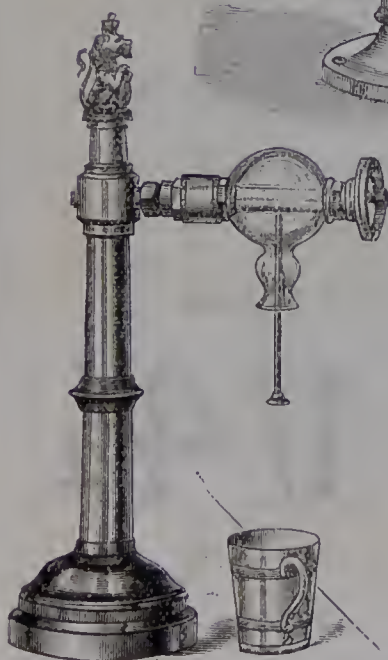
"I am more than satisfied with the No. 1 'Compact' Machine, which answers my utmost requirements. I find with the aid of a youth I can fill six dozen syphons per hour, including syringing. I have nearly trebled my sale this last three weeks."

From Messrs. TURNER, SCHON & CO., 101 Leadenhall Street, E.C.

"We thought we should have great difficulty in the manufacture of aerated waters, to which we were absolute strangers. Now that your No. 1 'Compact' Machine is fitted up and we have had an opportunity of working it, we find it is simplicity itself, and are surprised it should be possible to put such an effective and complete machine into such small compass. We think the machine will prove a great success, and we shall be happy to show it to intending purchasers."

### **PILLAR FOUNTAIN.**

*Design Registered No. 154,027, 1890.*



By this fountain a draught of highly-charged Soda-water can be drawn either into a tumbler or into a bottle. Also thick syrup can be thoroughly mixed with the aerated water in a moment, and without frothing. Its action is as follows: Having put the required quantity of syrup into the tumbler, it is placed under the glass bulb, the long tube touches the bottom of it, the aerated water is turned on, and striking upward in the glass bulb, comes into the tumbler strongly charged with carbonic acid gas. Now, by turning the wheel round again the water is shut off from the bulb and comes out at a small hole in the bottom of the tube and immediately mixes the syrup and water. This is a very handsome ornament, and the most effective and useful addition to the chemist's or restaurateur's counter. Made in brass, heavily silvered and burnished; the bulb is of clear glass.

Price complete. **£5 f.s.**

*Send for Illustrated Catalogue "C," containing all preliminary information. Forwarded free on application to*

# **BARNETT & FOSTER,**

"NIAGARA" WORKS, 26t EAGLE WHARF ROAD, LONDON, N.

# SYPHONS

BEST AND CHEAPEST.

FIRST QUALITY GLASS. GUARANTEED TESTED. TAPS PURE BLOCK TIN  
FREE FROM LEAD.

Syphons of all Colours,  
White, Blue, Green, and  
Amber.

Also with Glass Engraved,  
and Tops Nickelled or  
Silvered.

Syphons with Short or Long  
Levers

And all other Models to  
order.



PRICE

**1/4 <sup>1</sup>/<sub>2</sub>**

EACH.

PRICE

**1/4 <sup>1</sup>/<sub>2</sub>**

EACH.

**E. THESSIER, LATE THESSIER-FEVRE,**  
MANUFACTURER,  
**9 RUE CASTEX (near the Bastille) - PARIS.**

ESTABLISHED 55 YEARS AT 398 RUE ST. HONORÉ.

# CELEBRATED D. FEVRE'S SELTZOGENES.

COMPLETE WITH FITTINGS

GUARANTEED TESTED

by 175 lbs. of pressure per square  
inch.

BEST AND CHEAPEST

CAUTION.

Genuine Celebrated

SELTZOGENES

OF D. FEVRE.

None genuine unless

bearing the words, *L'Asse*



"VERITABLE SELTZOGENE D. FEVRE"

AND THE TRADE MARK SIGNATURE,

## E. THESSIER,

LATE THESSIER-FÈVRE,

**SOLE MANUFACTURER.**

Established 55 years.

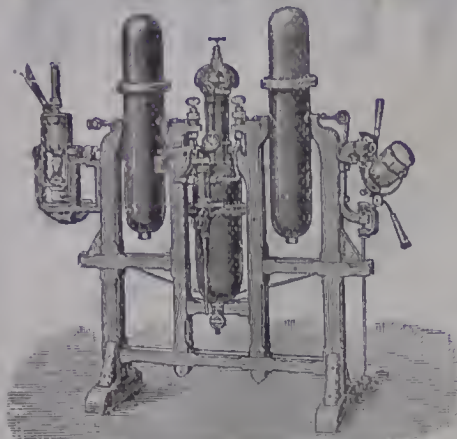
Transferred

398 Rue St. Honoré,

**PARIS.**

9 Rue Castex (Near the Bastille.)

# A. LOZÉ & CO., LD., 281 WEST DERBY ROAD, LIVERPOOL.



INDISPENSABLE TO CHEMISTS.  
THE ONLY PRACTICAL SODA WATER MACHINE.

Self-working by Chemical Action. No Skilled Labour.  
NOT LIABLE TO GET OUT OF ORDER OR NEED REPAIRS.  
*Produces the Purest Aërated Water made.*

Machines, in two sizes, at 25 guineas and 30 guineas. All complete. With the smaller a lad can make easily in ten hours twenty dozen Syphons or 100 dozen Bottles; with the larger, thirty dozen Syphons or 175 dozen bottles.

INDIA.—Machines on view at Messrs. Bertie-Smith & Co.'s, Bombay.

COUNTY LABORATORY, 30 BROWNLOW STREET, LIVERPOOL, October, 1889.  
I have examined during the present year the Machines for making Aërated Waters invented by Mr. Lozé, and I have formed a very high opinion of them. No lead is found in any part which comes in contact with the water, and the process is one which produces absolutely pure Carbonic Gas. Accordingly I find that the effervescing water produced is free from every injurious metal or contamination, and has a better flavour than that produced in the ordinary way.  
J. CAMPBELL BROWN, D.Sc.

CHEMICAL LABORATORY, 20 ALBERT GATE, MANCHESTER, 21st August, 1889.  
GENTLEMEN,—At your request I have visited the works of Messrs. A. Lozé & Co., of Prescott Street and Tuebrook, Liverpool. I have inspected the patented Apparatus for producing Aërated Waters, and have analysed the Aërated drinks manufactured. The results of analysis quite justified the inferences which were drawn from a knowledge of the materials used. Thus, instead of using ordinary whiting (as the source of carbonic acid gas), which gives off small quantities of offensive gases when acted upon with acid, Mr. Lozé uses one of the pure soluble bicarbonates of either Potash or Soda; the use of this salt enables the apparatus to be much simplified in form, as no gas washer is required, but the carbonic acid gas may be led at once into the liquid in the Saturating Cylinders. The Aërated drinks produced are of very high quality, both as to purity and as to Aëration, and the apparatus possesses the merit of extreme simplicity and efficiency.—Faithfully yours,  
O. ESTCOURT, F.I.C., F.I.

Messrs. A. LOZÉ, & CO., LIMITED.

DITTON, 10th April, 1890.

Dear Mr. Lozé,—I am pleased to inform you that I have been able to work the Machine sold to me by you without previous knowledge. With your patent Turnover I can bottle Patent Stoppers at the rate of two dozen per minute. Syphons and Corked Bottles I can fill much quicker than what you advertise the Machine to do.

The Aërated Waters produced have been sampled by a number of gentlemen, and pronounced by them to be of a most excellent quality.—Wishing you every success, I remain, yours truly,  
ROBT. J. GOW, F.C.S.

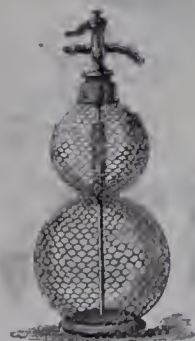
## SYPHONS & SELTZOGENES PORCELAIN LINED HEADS.

NON-METALLIC.

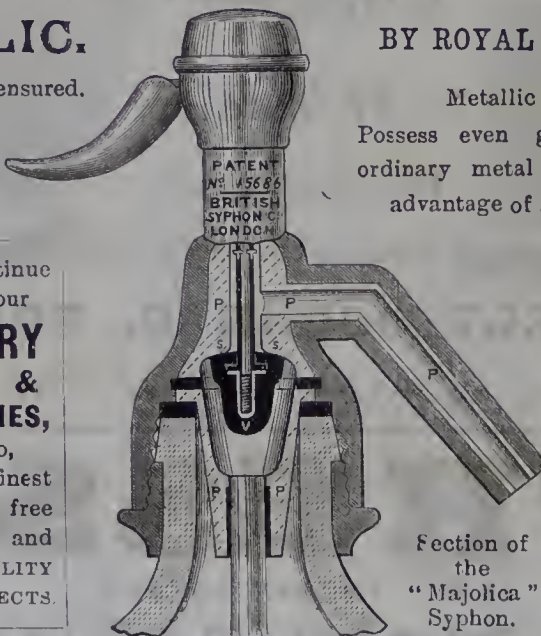
BY ROYAL LETTERS PATENT, No. 15686.

Absolute Purity of the Water ensured.  
Suitable for all kinds of beverages, sweetened, medicinal, or otherwise. Each Syphon and Seltzogene guaranteed.

Metallic contamination utterly impossible.  
Possess even greater strength and durability than ordinary metal heads, combined with the immense advantage of always being clean and non-oxidisable.



We still continue to warrant our  
**ORDINARY  
SYPHONS &  
SELTZOGENES,**  
as hitherto,  
to be of the finest  
tin, entirely free  
from lead, and  
FIRST QUALITY  
IN ALL RESPECTS.



Section of  
the  
"Majolica"  
Syphon.

WRITE  
FOR SAMPLE  
AND SEE  
OPINION OF  
THE ENTIRE  
TRADE PRESS.

Prices and  
Particulars  
on application  
to the  
Patentees and  
Manufacturers.



**THE BRITISH SYPHON MANUFACTURING CO.**  
EUGSTER & KOERTGEN, PROPRIETORS  
2B GRESHAM BUILDINGS, GUILDHALL, LONDON, E.C.  
WORKS—LAMBETH.

HIGHEST AWARD AT THE INTERNATIONAL EXHIBITION, LONDON, 1885.  
TRADE MARK Registered May 31st, 1867.

THE PIONEER TEMPERANCE BEVERAGES—*Ch. Eng. Temp. Chron.*  
**BECKETT'S**  
**FRUIT SYRUPS & CORDIALS**

"First-class beverages."—*The Grocer.*  
"Have an established reputation."—*Noncon-*  
*formist.*

"Delicious beverages."—*Scottish Good Templar.*  
"Beckett's Fruit Syrups are not to be excelled."  
—*Anti-Adulteration Review.*

"Exceedingly pleasant."—*The Rock.*  
"Invigorating and refreshing."—*Manchester*  
*Courier.*

Price Lists, Testimonials, and other information sent post free on application to the Manufacturer—**W. BECKETT, Heywood, Manchester**  
Wholesale and Export Agents—Barclay & Sons (Lim.), 95 Farringdon Street, E.C.; W. Edwards & Son, 157 Queen Victoria Street, E.C.;  
J. Sanger & Sons, 489 Oxford Street; J. Woolley, Sons & Co., Manchester; Goodall, Backhouse & Co., Leeds.

**MILD DRINKS.**

Cherry, Raspberry,  
Strawberry, Lime Fruit  
Black Currant, Lemon,  
Orange, Jargonelle Pear  
Pineapple,  
Raspberry Vinegar,  
Orange and Quinine.

**HOT DRINKS.**

Winterine, Honey Liqueur  
Aromatic Black Currant,  
Gingerette, Ginger Lemon  
Peppermint, Clove,  
Elderberry, Syrup of Hops  
Lime Fruit Cordial,  
Raspberry Cordial.

# KRONENQUELLE.

THE FAMOUS NATURAL MINERAL WATER.

For  
**Gout, Gravel,  
Rheumatism.**



For  
**Kidney and  
Bladder Diseases.**

TO BE OBTAINED THROUGH ALL WHOLESALE HOUSES.

[1]

SOLE AGENTS, **W. SCHACHT & CO., 26 Finsbury Pavement, LONDON, E.C.**

## KINMOND'S

Royal Leamington  
APNEUMATIC

## TABLE WATERS

Were first supplied to H.M. the Queen in 1856,  
and to H.R.H. the Prince of Wales in 1862.

## KINMOND'S GINGER ALE,

AND ALL THEIR OTHER WATERS,  
Are UNRIVALLED for PURITY and QUALITY.

*In Ordinary Bottles and Syphons.*

MANUFACTORY—  
**LEAMINGTON.**

*Send for Trade List and Compare Prices.*

SEE

## NEWBALL & MASON'S INSERT

(Facing page 33 of this issue)

DRAWING ATTENTION  
TO

THE ORIGINAL

## Extract of Herbs

AND

## Wine Essences.

Natural arsenious and  
  
 ferrugineous  
 Mineral-water.  
**SREBRENICA** in Bosnia.  
 Will be found of great value in the treatment of  
 Anaemia, Chlorosis, Intermitting fever,  
 Malaria, Diseases of the Nerves, &c.  
**Easily to digest.**  
**HENRY MATTONI, VIENNA.**  
 Write for pamphlets and particulars to  
**W. BEST & SONS,**  
 22, Henrietta street, Cavendish square,  
**LONDON, W.**  
 To be had of all Chemists and Druggists.

## INDEX TO ADVERTISEMENTS.

Pages 65 - 67.

# SCHWEPPE'S TABLE WATERS

51 BERNERS STREET, LONDON, W.

## TOILET REQUISITES.

For quotations of all descriptions see Druggists.

Sundries List of undersigned.

See Advertisement, page 101.

## EVANS, SONS & CO. LIVERPOOL.

LONDON:  
 EVANS, LESCHER & WEBB,  
 60 Bartholomew Close.

CANADA:  
 EVANS AND SONS, LD.  
 Montreal, Toronto; and Victoria,  
 British Columbia.

# CHEMISTS' SHOP FITTINGS, SHOW CASES, &c.

FOR BEST WORK AT LOW PRICES SEND TO

**G. TREBLE & CO., 2 KINGSLAND GREEN, DALSTON, LONDON.**

PLANS AND ESTIMATES FREE. SPECIAL ATTENTION PAID TO EXPORT ORDERS.

PRIZE MEDAL, International Health Exhibition, 1884.	<b>THE NEW PERMANENT          ENGRAVED WINDOW TABLETS</b>	AWARD OF MERIT International Sanitary Exhibition 1881.
<b>IN RUBY, BLUE, AMBER, AND OPAL GLASS.</b>		
Send particulars of size, subject matter, and colour, when price for one Tablet and upwards will be sent. For Proprietary Articles, 100 8x6 Ruby Tablets, £3 15s. 0d.		
<b>J. R. CORSAN, THE LONDON SAND-BLAST WORKS, 80 GRAY'S INN ROAD, W.C.</b> <b>TO PREVENT FRAUD, DEMAND BUSINESS CARD FROM TRAVELLERS.</b>		

## ARTISTIC ADVERTISING!!

# THE GEM GLASS PATENT SHOW TABLETS

SPECIALITIES FOR DRUGGISTS AND CHEMISTS.

Pronounced by the many High-class Firms who use them to be the most Artistic and Beautiful Show Card now before the public. To be obtained from Messrs. MAW, SON & THOMPSON and Messrs. LYNCH & Co, Aldersgate Street, E.C., and Messrs. BARCLAY & SON (LIMITED), Farringdon Street, E.C.; or from the Works—

**155 CURTAIN ROAD (corner of OLD STREET), LONDON, E.C.**

# TOWER TEA

## A MOST VALUABLE AGENCY.

REGISTERED TRADE MARK.



*Tower Tea*

NONE GENUINE WITHOUT THE  
REGISTERED TRADE MARK  
AND SIGNATURE, "TOWER TEA."

SEE ANALYSIS IN THE "LANCET," DECEMBER 20, 1890.

"We have submitted to examination the following teas of the Great Tower Street Company:—Congou, 1/2; Souchong, 1/4; Assam Congou, 1/6; Pekoe, 1/8 and 2/-; and pure Ceylon. They all yield liquors which are generous to the taste and of full strength and vigour. The results of our analysis indicate the purity and genuineness of the samples."

SEE "HEALTH," OCTOBER 10, 1890.

"As all the blends of Tower Tea are excellent, it is difficult to specify any one variety as superior to another. In our judgment, the Tower Tea sold at 2/8 per lb. cannot be excelled, while that at 1/10 is really a high-class product. We may add that we have been specially pleased with the Ceylon Tea sold by this Company. For ordinary use, the Assam Congou of the Great Tower Street Tea Company, sold at 1/6 per pound, is as excellent a tea as any family need employ."

### RECENT HONOURS.

SPRING, 1889.—The Great Tower Street Tea Company, appointed by the Indian Tea Districts Association to introduce Indian Teas into France and other European countries, and entrusted with the administration of the Indian Pavilion at the Great Exhibition.

GOLD MEDAL awarded to the Indian Pavilion—SILVER MEDAL (HIGHEST AWARD) for Tower Tea. GOLD MEDAL, Paris Exhibition of Foods, Spring, 1890. DIPLOMA OF MERIT (HIGHEST AWARD), Military Exhibition, London. GOLD MEDAL, International Exhibition, Champs Elysées.

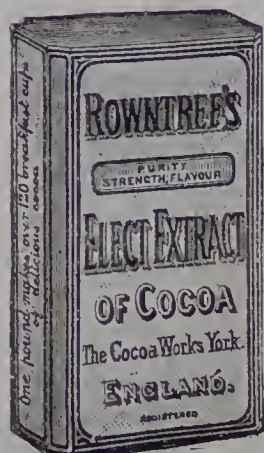
A BOOK OF TESTIMONIALS WILL BE SENT ON APPLICATION.

*N.B.—Samples of Blended Tea in Bulk submitted to Chemists who wish to pack for themselves.*

WHERE VACANCIES EXIST, AGENTS ARE APPOINTED BY

**THE GREAT TOWER STREET TEA CO., LD.**  
**5 JEWRY STREET, LONDON, E.C.**

# Rowntree's "Elect Cocoa"



## PURITY, STRENGTH, FLAVOUR.

Since the introduction of this Cocoa it has continuously increased in popular favour, and wherever it is once used it establishes itself as a regular article of diet. This popularity is due to the facts:—

- I. That it is characterised by Extraordinary Strength.
- II. That it has a Refreshing and Delightful Taste and Aroma.
- III. That it can be Made in a Moment.
- IV. That it is extremely Soluble and Digestible.
- V. That it is the most Economical Cocoa in the Market, as one pound makes over 120 cups of Strong and Delicious Cocoa.

The leading medical journals and many medical men and public analysts have testified to the excellent qualities of the "Elect" Cocoa.

**THE COCOA WORKS, YORK, ENGLAND.**

## MILLAR'S BRITISH WINES.

ORANGE (suitable for Quinine), GINGER, RAISIN COWSLIP, CHERRY, &c.  
**A. MILLAR & CO., Thomas Street, DUBLIN.**

Sole Agents for London and District—H. J. ROYDANT & CO., 75 Acre Lane, Brixton, S.W



## ROBINSON'S LIEBIG'S BEEF WINE.

Composed of Liebig's Extract of Beef, Extract of Malt, and sound Port Wine.

### REPORT ON BEEF WINES.

From the results of my Analyses of various Beef Wines I have had occasion to examine, none have equalled as regards strength, purity of ingredients, and (of no less importance) the skilful and judicious manner in which the respective ingredients have been proportioned and combined, the Liebig's Beef Wine manufactured by Mr. B. ROBINSON, of Pendleton, Manchester.

It is in every sense a reliable reparation, embodying in a pleasing and palatable form all the acknowledged medicinal and nutritive properties pertaining to Liebig's Extract of Meat, Extract of Malt, and sound Port Wine.

**WILLIAM ELBORNE, F.C.S., F.L.S.**

Lecturer on Materia Medica in the Owens College, Manchester (Victoria University).

December 15, 1883.

[Introduced 1855.]

## ROBINSON'S CONCENTRATED WATERS.

[Introduced 1855.]

One Ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopoeia, and free from all Chemical impurity. They will keep good any length of time in any climate.



Aqua Anethi, Concent., 4/ lb.	Aqua Olinum. Ver. Concent., 6/ lb.	Aqua Fœniculi, Concent., 4/ lb.	Aqua Pimentæ, Concent. 4/ lb.
" Anisi " 4/ "	" Cassia " 4/ "	" Mentli. Pip. " 4/ "	" Rosæ " 8/6 "
" Camphoræ " 4/ "	" Flor. Aurant. " 8/8 "	" " Ang. " 6/ "	" Rosæ Virgin. " 10/6 "
" Carui " 4/ "	" Flor. Sambuci " 8/8 "	" Viridi. " 4/ "	

The above are put up in Bottles of 4lb. or 1lb. and upwards, each of which has the Inventor's Protection Label over Cork.

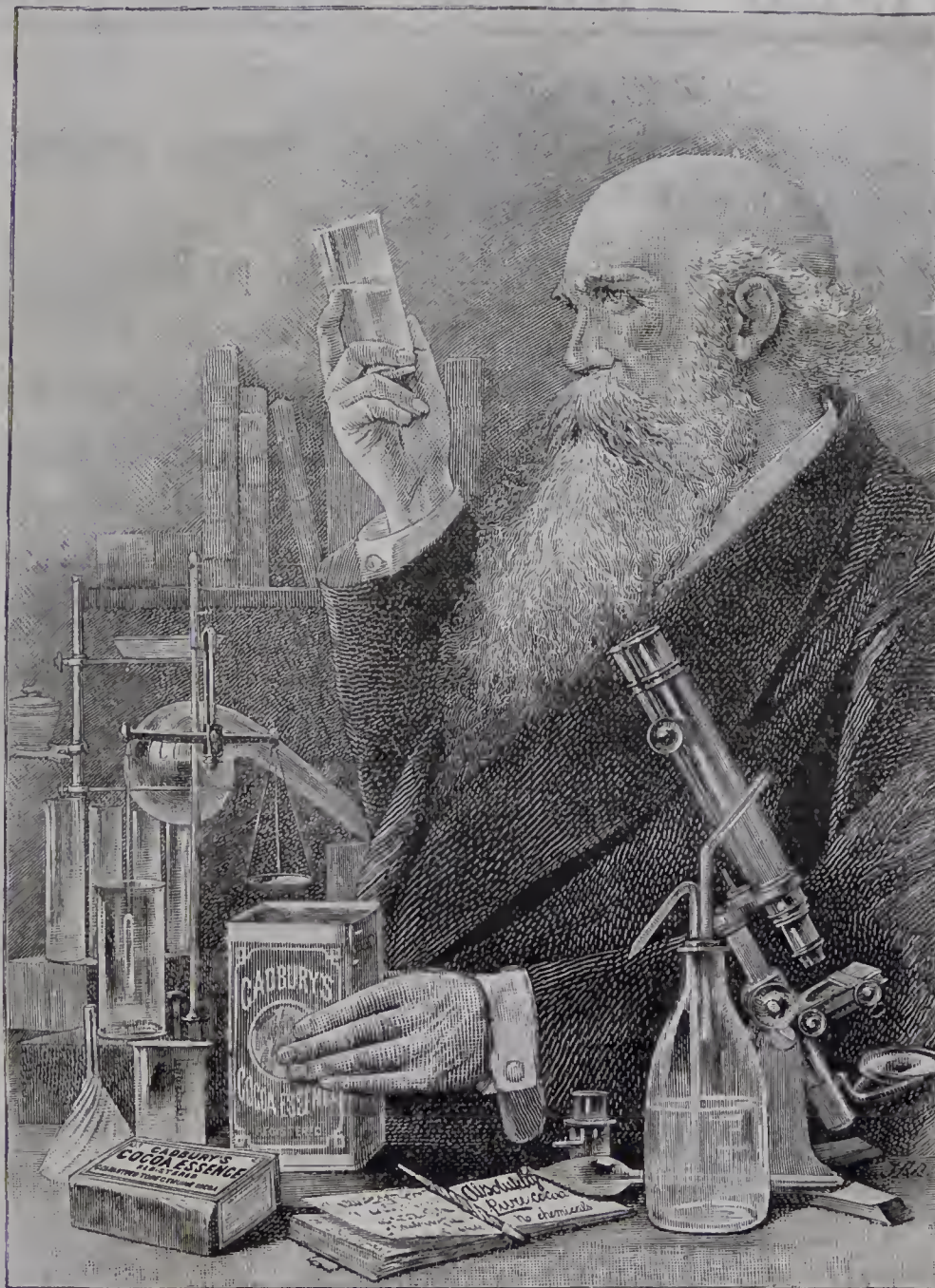
From the LANCET, July 15, 1882:—"CONCENTRATED WATERS (Robinson's, Pendleton, Manchester).—Among the samples sent to us we find Aq. Anethi, Anisi, Cinnam. Ver., Rosæ, and some dozen of others. Diluted with forty parts of water they form the ordinary waters of the Pharmacopoeia. They are excellent in quality, and will be very useful, especially in country practice. [1]

Wholesale: HEAROM & CO., London, and most Provincial Wholesale Druggists. PREPARED BY THE INVENTOR.  
B. ROBINSON, MANUFACTURING CHEMIST, DISTILLER, AND BREWER OF BRITISH WINES, MANCHESTER.

# CADBURY'S COCOA

ABSOLUTELY PURE—THEREFORE BEST.

C  
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The Analyst, comparing the flesh-forming ingredients in Cocoas, gives the following average:—

"Flesh-forming ingredients in Natural Cocoa Nibs ... ..	13 00"
"Flesh-forming ingredients in the best Commercial Cocoa with added Starch and Sugar ... ..	6 00"
"Flesh-forming ingredients in Cadbury's Cocoa, the standard English article ...	21 00"
"The process of preparation concentrates the nourishing and stimulating principles of the Cocoa bean."	

"Cadbury's Cocoa being Absolutely Pure is therefore the best Cocoa."

For Prices, &c., apply, **CADBURY'S**, Bournville, near Birmingham.

LONDON OFFICES—2 ROOD LANE, E.C.

Telegraphic Address "CAFFYN LONDON."

# REVISED TRADE PRICE LIST.

## TERMS:—CASH.

On and after January 1, 1891, we shall not charge for **Packing Cases** for goods intended for Sale in the United Kingdom.

Caffyn's Liquor Carnis, Small Size 3-oz. ... ..	20s. per Doz.	} Subject to Discount 2½% on orders for two dozen bottles 10% Discount is allowed on orders for six dozen.
Caffyn's Liquor Carnis, Large Size 6-oz, ... ..	34s. ,,	

*Secretaries of Hospitals and Benevolent Institutions are invited to apply for Special Price List.*

We do not execute orders having a less gross value than £2, anything smaller than this would not pay to order direct from us, as the goods are supplied in any quantity on very reasonable terms by wholesale houses, who buy in large quantities and secure full discounts.

It will be seen that orders for Six Dozen secure our maximum discount, 10% (ten per cent.) ; beyond this we cannot go, no matter who the buyer may be, whether Wholesale or Retail, unless One Hundred Dozen are taken at one time, when we allow an additional discount of 5%.

Our preparation is a costly one to produce. To quote *The London Medical Recorder* :—"The meat used consists of the choicest parts of the hind-quarters of the best bred and fed English or Scotch beef, no foreign animal being allowed to contribute its quota to the bulk." Our price places it within the reach of all.

Unless we have had previous business transactions with those who favour us with an order, we respectfully solicit cash with order or London reference.

---

**Retail—Three-ounce Bottle, 2s., Six-ounce, 3s. 6d.**

---

Pharmacists willing to distribute specimen bottles and literature to Medical Men will oblige by intimating the same to us and sending List of Medicos, with Addresses.

# THE LIQUOR CARNIS COMPANY, LIM.

General Offices—50 HOLBORN VIADUCT, LONDON, E.C.

Laboratories—SMITHFIELD WORKS, LONDON, E.C.

SKETCH OF THE PRINCIPLES ON WHICH THE SCIENCE AND  
ART OF FEEDING THE SICK ARE BASED.

We would solicit your attention to a few remarks which, whilst indicating the range of administration of "Caffyn's Liquor Carnis," may help to elucidate the principles upon which the Science and Art of Feeding the Sick are founded.

Food stuffs may conveniently be divided as follows:—

- 1st.—Natural, or simply cooked food, unfit for immediate absorption.
- 2nd. — Food which has been partially prepared for absorption by concentration, &c.
- 3rd.—That which has been artificially exposed to the action of ferments, and is quite ready for absorption.

In this arrangement those food stuffs are ignored, which by their preparation have been already converted into urea, &c., and which represent no actually available energy, but are simply stimulants, and should only be used as such, and with the greatest care.

Choice of material and its quantity will be determined partly by the rate of body-waste and partly by the patient's own ability to carry on the process of proteolysis.

Experience soon indicates that two difficulties have to be negotiated—the danger of overloading the digestive tract with an excess of food stuff and the system with waste-products.

The first trouble is avoided by adopting material belonging to the second class, well represented by our preparation, which may be given either pure or diluted to an extent which the physician's judgment or the peculiar conditions determine. Partly owing to its rapid absorption it undergoes no putrefactive decomposition, so that flatulence and over-distension of the canal is avoided; a complication so often attending the exhibition of beef tea, milk and food stuffs included in the first class.

In feeding with milk, which for one in health is physiologically a fairly perfect food, serious troubles often occur; either from imperfect action of peptic or tryptic ferments, or weakened peristalsis, the casein is simply *precipitated*, and *not digested* either in the stomach or small intestines. Moreover fats and lactose undergo putrefactive decomposition resulting in enormous accumulation of gases and solid lumps of curd, consequently causing dyspnoea, palpitation, &c.

The Second Danger is one which demands particular care, especially when administering large quantities of beef tea or extracts of meat prepared by the usual "destructive" process. An extra amount of labour thrown upon the liver and kidneys in getting rid of the waste urea and its allies may be sufficient to strain those organs beyond their already weakened powers, thereby tending to shorten a life which might otherwise be prolonged.

One very important point which Professor Michael Foster accentuates in his "Text Book on Physiology" is the danger of administering an excess of potash salts. He points out the startling fact that "a dog fed on nothing but Liebig's Extract dies sooner than a dog not fed at all."

In advanced diabetes the amount of urea produced is great, indicating the great tissue-waste at work. It is suggested to the medical profession that "Caffyn's Liquor Carnis" meets these requirements. It is most nourishing, is quickly taken up and covers the waste, the amount of actual proteolysis required being so slight as to cause but little



delay and demand upon the peptic or tryptic juices.

Being a standard preparation, the exact amount can be accurately gauged, so that the nitrogenous equilibrium is readily adjusted when making every allowance for proteolytic transition in the patient's digestive juices.

Those food stuffs included in the 3rd class are so very unpleasant and nauseating that it is only under exceptional circumstances that they should be administered by the mouth.

With this slight sketch of the aim and principles guiding us in the manufacture of our preparation, we present it to the medical profession with every confidence, feeling assured that the properties claimed will be fully substantiated, and that the extended acquaintance will coincide with an increased appreciation.

Specimens free, and carriage paid, by applying to the  
MANUFACTURERS AND PATENTEES,  
THE LIQUOR CARNIS COMPANY (LIM.),  
50 Holborn Viaduct, E.C. [2]  
LABORATORIES: Smithfield Works, London, E.C.

To H.R.H. The Prince of Wales, The Empress of Germany, &amp;c.

**BRAND & CO.'S**  
**PEPTONES**  
 OF  
**BEEF,**  
**MUTTON,**  
**VEAL,**  
 AND  
**CHICKEN.**



**Fry's Pure**  
**Cocoa**



To secure this article  
 ask for  
**FRY'S PURE**  
**CONCENTRATED**

**NESTLE'S FOOD**  
**AN ENTIRE DIET FOR INFANTS.**



Supplies all the elements necessary for the complete nourishment and growth of the human frame.

NESTLE'S FOOD, being partly composed of Milk, is complete and entire in itself, and requires simply the addition of water to make it instantly ready for use. It is not merely an auxiliary, like other Infants' Foods, which require milk to be added in preparing for use.

Recommended by the highest Medical Authorities as the nearest equivalent to Mother's Milk

*Pamphlet, with Medical Testimonials and Sample sufficient for a fair trial, sent post free on application to*

**H. NESTLÉ, 9 SNOW HILL, LONDON, E.C.**

**READE BROTHERS'**  
**PATENT**

**MALT & HYPOPHOSPHITE BISCUITS**

*A palatable and convenient mode of administering Malt and the Hypophosphites.*

The Biscuits contain 75 per cent. of Malt Flour to 25 per cent. prepared Wheaten Flour, and each Biscuit contains half a grain of the combined Hypophosphites of Lime, Potass, and Soda, thus rendering it an admirable tonic and nutritive Food, eminently adapted for those cases in which Malt and the Hypophosphites are specially indicated.

**In Tins, 1s. 6d. and 3s. each; Trade Price, 15s. and 30s. dozen,**

*From the Patent Medicine Houses, or from the Patentees and Manufacturers,*

**READE BROTHERS & CO.,** Pharmaceutical Laboratory, **WOLVERHAMPTON.**

TRADE MARK.



*THE LANCET*:—"About one-third of the whole dry matter consists of true peptone, and another third of albumose. A variety of albumen uncoagulated by heat."—July 12th, 1890.

*VIENNA POLIKLINIK*:—"Your preparations . . . have proved excellent means of nutrition, and for strengthening individuals of great weakness and poverty of blood."—Prof. SCHNITZLER, Sept. 19th, 1890.

# DENAAYER'S

## LIQUID STERILISED PEPTONE OF MEAT.

Considerably more nutritive than beef, and more palatable than home-made beef-tea; elegant in appearance. No digestive function need, or can, be exercised, all having been fitted for immediate absorption. Life can be supported indefinitely upon it, and it does not clog upon the most fastidious and delicate palate. It contains all the stimulative extractives and the mineral salts in due proportion, as they exist in beef. 2s. per bottle, ready for use.

**LIQUID PEPTONATE OF IRON** (Denaeyer), 1s. 6d. per bottle, guaranteed to contain 10 per cent. of the salt in solution, equal to 3.30 per cent. of the metal.

**PULVIS FERRI PEPTONATIS** (Denaeyer), 4s. per ounce bottle, a beautiful reddish-grey powder, soluble in water, compatible with all alkaline or neutral medicines.

**TRUE PEPTONATE OF IRON** is the produce of our laboratory alone, and is our discovery. The salt is precipitated from its solution in presence of the acid gastric juice, redissolved and absorbed with great rapidity in the alkaline medium met with in the duodenum, so that it does not interfere with digestion, and it is not chemically altered by the juices of the alimentary canal. Should be administered before meals, and its flavour requires no disguise.

PAMPHLETS AND SAMPLES FREE TO MEDICAL MEN.

Wholesale General Agents—Edinburgh: DUNCAN, FLOCKHART & CO. Glasgow: OLD APOTHECARIES' COMPANY (Limited).  
Dublin: HAMILTON, LONG & COMPANY (Limited).

**DENAAYER'S PEPTONIDS AND EXTRACT OF MEAT COMPANY (LIMITED),**  
118 BISHOPSGATE STREET WITHIN, LONDON, E.C.

## CONCENTRATED

# PEPTONISED COCOA & MILK

### AND CONCENTRATED

# PEPTONISED MILK

(PATENT).

These two preparations are made with pure rich PRE-DIGESTED Country Milk, and, by mere dilution with hot water, afford a delicious restorative beverage the assimilation of which requires no digestive effort.

# SAVORY & MOORE

## LONDON.

Tins 1s. 6d. and 2s. 6d. Obtainable Everywhere.



TRADE MARK.

## KANGRA VALLEY INDIAN TEA GROWERS' ASSOCIATION.

French &amp; Langdale, 14 St. Dunstan's Hill, London, E.C.

Guaranteed to be Absolutely Pure, as supplied to Europeans in India.

Packed in 1-lb.,  $\frac{1}{2}$ -lb., and  $\frac{1}{4}$ -lb. Metallic Air-tight Packets.

No. 1, Orange Pekoe, at 3/10 per lb. No. 2, Pekoe, at 2/10 per lb. No. 3, Pekoe Souchong, at 2/4 per lb. No. 4, Souchong, at 1/10 per lb.

Export Prices in Bond, 4d. per lb. less than above, in Chests of 50 lbs. and upwards, shipped free of charge. 50 lbs. Carriage Paid. No Travellers employed. Wholesale Terms and Tasting Samples on application.

These Teas are recommended to Chemists not only on account of their Purity, but because they are Less Astringent than other Indian Teas.

## Tooth Preparations.

For quotations of all descriptions see Druggists' Sunaries List of undersigned.  
See Advertisement, page 101.

**EVANS, SONS & CO.**  
LIVERPOOL.

LONDON:  
EVANS, LESCHER & WEBB,  
60 Bartholomew Close.

CANADA:  
EVANS AND SONS, LD.  
Montreal, Toronto; and Victoria,  
British Columbia.

## ORANGE & LEMON PEELS (DRIED AND FRESH).

This SEASON'S PEEL is now ready, and we are prepared to supply FRESH ORANGE and LEMON PEELS specially cut, free from pith, and in small shreds (about  $1'' \times \frac{1}{16}''$ ), in a condition most favourable for the manufacture of the Official Tinctures.

Samples (as soon as in hand) will be sent free on application.

**CHAS. SOUTHWELL & CO.**  
DOCKHEAD, S.E.

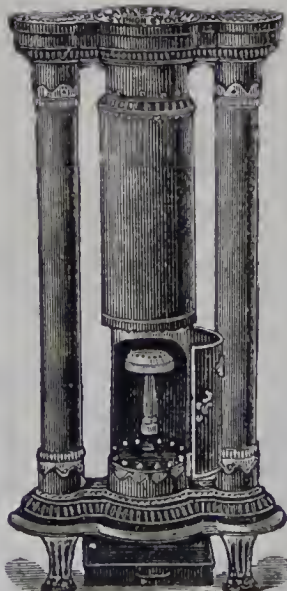
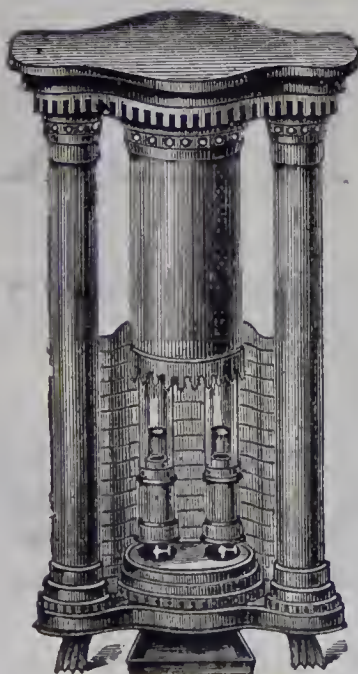
## TO CHEMISTS AND DRUGGISTS.

AGENTS WANTED FOR THE SALE OF CLARK'S PATENT

"SYPHON" (REGISTERED TITLE) **HYGIENIC CONDENSING GAS HEATING-STOVES.**

NO FLUE REQUIRED. ARE FREE FROM SMELL OR SMOKE.

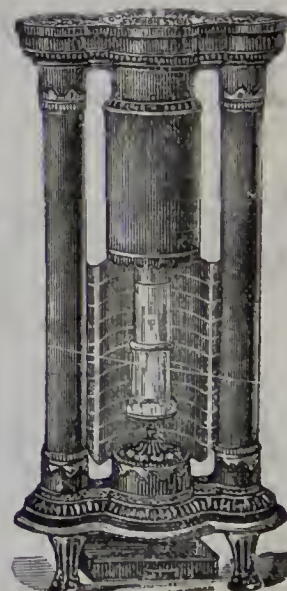
All injurious vapours are reduced to harmless liquid inside the Stove, and passed out at foot into a tray provided for that purpose.



For Use In Hospitals, Sick Chambers, Bedrooms, Halls, Conservatories, Churches, Schools, &c.

Specially suitable for patients suffering from Bronchial affections, as a moist atmosphere is obtainable when required.

For Terms, Particulars, and Prices, apply to



**S. CLARK & CO.,** Patentees and Makers, Syphon Works, Park Street, ISLINGTON, LONDON, N.

Telegraphic Address—"SYPHON STOVES LONDON."

Wholesale Agents—Messrs. MAW, SON &amp; THOMPSON, Aldersgate Street, London, E.C.

# PETER TYRER'S SAUCES.

WORCESTER, READING, HARVIE, YORKSHIRE, & "BOROUGH" KETCHUP, SILVER MEDAL.

	Per gross.	Extra Quality
1d. Sample Bottles, in dozen parcels .. ..	5/3 ..	6 3
" " in 1-gross boxes .. ..	5/9 ..	6/9
1d. Giant Bottles, in dozen parcels .. ..	6/6 ..	8 3
" " in 1-gross boxes .. ..	7/- ..	9/-
1/2 Bottles, flat or round, reputed 1/2 pint .. ..	16/- ..	24/-
1/2 Bottles, flat or round, reputed pint .. ..	26/- ..	35/-
1 Pint Imperial, round stoppered bottles .. ..	50/- ..	60/-
12 1/2-Gallon Casks, (each free) .. .. each	23/- ..	32/-

## ROYAL CAFE SAUCE

Rich and Fruity, of Exquisite Flavour.

Square Glass Stoppered Bottles, contain nearly 1/2 pint Imperial, neatly wrapped and labelled.

**PRICE 48s. PER GROSS.**

Small Sample Bottles, at 8s. per Gross.

## CEMENT.

(For mending China, Glass, &c.)

1d. Bottles, on show cards containing 1/4 gross, per gross 5/3  
Gives universal satisfaction.

## GLUE (Soluble).

1d. Bottles, on show cards, containing 1/4 gross, per gross 5/3  
Very saleable, because can be relied upon.

## FURNITURE CREAM.

1d. Bottles, in 1 dozen parcels, per gross ... 6/6

## GUM.

1d. Bottles, packed in dozen parcels, per gross ... 6/3

## INK (Black).

1d. Bottles, packed in dozen parcels, per gross ... 4/3

## INSECT POWDER.

For killing Bugs, Fleas, Beetles, Moths, and all kinds of Insects which infest Birds and Birdcages, without any fear of hurting the smallest Bird. Full directions with each package.

1d. tins, perforated lids, per gross ... 5/-  
On show cards containing 1/4 gross.

This is the most saleable article ever offered to the trade; the quality cannot be improved upon, and the public get value for their money.

For sums under £1 please remit Postal Order, not CHEQUE, and oblige. All Goods free to Rail or Docks in London, for Cash against Invoice.

SAMPLES OF ANY KIND OF SAUCE SENT POST FREE ON RECEIPT OF BUSINESS CARD.

**PETER TYRER, 70 LONG LANE, BOROUGH, LONDON, S.E.**

Also through PANTIN, BURFOYNE, TRAVERS, EVANS, EVANS SONS & CO., DROITWICH SALT CO., and all Wholesale Houses in London.

**GOOD 1<sup>st</sup> LINES.**

## CHEMISTS

CAN SAVE

## TIME & MONEY

by selling my "Plain Label" Lines, and should remit prices quoted for sample 1/4-gross lots, sent carriage paid (Sauces excepted), on first occasion; if not satisfactory, I will pay carriage back and return cash.

Yours faithfully,

PETER TYRER.

## PENNY MENTHOLS.

On 1-gross Cards, at 0/6 and 6/6.

## PENNY (Tasteless) PILLS.

6 in a box, 1-gross Cards, at 4/6.

## SPECIAL NEW LINE.

### PENNY PILLS,

6 PILLS IN GLASS TUBE. On 1-gross Cards, at 5/3.

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WITH WOOL COMPLETE. On 1-gross Cards, at 5/3.

### PENNY CORN SOLVENT.

On 1-gross Cards, at 5/6.

### WORM CAKES (Gingerbread).

Same as supplied for years to the largest houses in London.

In 1-lb. tins (tins tree), about 60 cakes to the lb., per lb. ... 1/2

1-gross tins, per gross ... 4/6

The "SWEETMEAT" WORM CAKES, 1d. each. ... 6/-

1-gross tins, per gross ... 6/-  
These Cakes are readily eaten by children when they will not touch the ordinary Brown Worm Cakes.

### FULLER'S EARTH POWDER.

1d. Boxes, in 1-gross glass top boxes, per gross ... 3/3

### VIOLET POWDER.

1d. Boxes, in 1-gross glass top boxes, per gross ... 4/-

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1d. Boxes, in 1-gross glass top boxes, per gross ... 3/9

### GOLDBEATER'S SKIN.

1d. Packets, on 1-gross cards, per gross ... 3/6

### COURT PLASTER.

(Black, White, or Pink)

1d. Packets, on 1-gross cards, per gross ... 4/-

### TOOTH ENAMEL.

(Gutta Percha Enamel for stopping Decayed Teeth.)

In 1d. Packets, on 1-gross show cards, per gross ... 4/-

### CAMPBOR BALLS.

(Camphor Balls for Chapped Hands.)

1d. Balls, also on 1-gross cards, per gross ... 5/6

EIGHT PRIZE MEDALS AWARDED

# GOODALL'S HOUSEHOLD SPECIALITIES.

## YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6d., 1s., and 2s. each

## GOODALL'S BAKING POWDER.

The Best in the World. 1d. Packets; 6d., 1s., 2s. and 5s. Tins.

## GOODALL'S EGG POWDER.

One 6d. Tin is equal to 25 eggs. In 1d. Packets; 6d., 1s. 2s. and 5s. Tins.

## GOODALL'S CUSTARD POWDER.

Delicious Custards without Eggs. In Boxes, 2s., 6d., and 1s. each

## GOODALL'S BLANCMANGE POWDER

Delicious Blancmange in a Few Minutes. Boxes, 6d. and 1s. each.

## GOODALL'S QUININE WINE, B.P.

Best Tonic yet Introduced. Bottles, 6d., 1s. and 2s. each.

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Makes the Best Ginger-Beer. Packets, 3d. and 6d.

## GOODALL'S BRUNSWICK BLACK.

For Painting Stoves, Grates, Iron, Tin, &amp;c. 6d. and 1s. Bottles

## GOODALL'S LAVENDER WATER.

A Rich and Lasting Perfume. Bottles, 1s., 2s., and 5s. each.

## GOODALL'S PLATE POWDER.

For Polishing and Cleaning all Metals. Boxes, 6d., 1s. and 2s.

## GOODALL'S JELLY SQUARES.

Make a Delicious and Nutritious Jelly. In  $\frac{1}{2}$ -pint, 1-pint, and Quart boxes, 3d., 6d., and 1s. each.

PROPRIETORS—GOODALL, BACKHOUSE &amp; CO., LEEDS

# PATENT MEDICINES AND DRUGGISTS' SUNDRIES.

Monthly Price List of Patent Medicines, Druggists' Sundries, &amp;c., will be sent post free on application to

GOODALL, BACKHOUSE &amp; CO., LEEDS.

# TO THE CHEMISTS & DRUGGISTS OF GREAT BRITAIN.

TELEGRAPHIC ADDRESS:

COLEMAN,  
GEORGE'S, NORWICH.St. George's, Middle St.  
NORWICH,

December, 1887.

The Excise Authorities having created a difficulty as to the sale of Medicated Wine containing a certain percentage of alcohol, we obtained in January last, from the Inland Revenue Authorities, permission to sell our WINCARNIS,\* or Liebig's Extract of Meat and Malt Wine, WITH QUININE, without a Wine Licence, and many Chemists not holding a Wine Licence have sold considerable quantities. In order further to meet the requirements of the trade, we have introduced a Liebig's Extract of Meat and Malt Wine, NON-Alcoholic, made from the juice of the Grape, Liebig's Extract of Meat, and Extract of Malt. This also can be SOLD WITHOUT A WINE LICENCE. Your orders will oblige either direct or through the Wholesale Houses.

Yours obediently,

COLEMAN &amp; CO., LIMITED.

N.B.—The Wine is sold in Bottles, 2/9 and 4/6 each.  
Trade prices on application.

P.S.—Where the Magistrate's Certificate is not held we are willing to pay the entire cost of a Retail Certificate (the holder of which can sell any kind of Wines) if an assorted order of 6 dozen is sent us of any of our preparations. List on application. Our WINCARNIS,\* or Liebig's Extract of Meat and Malt Wine WITHOUT QUININE commands a very large sale, and is recommended by over two thousand medical men who have sent us testimonials in its favour.

SOLE MANUFACTURERS—

COLEMAN &amp; CO., LIMITED,

ST. GEORGE'S, NORWICH,

AND 3 NEW LONDON STREET, LONDON, E.C.

\* WINCARNIS is a NEW NAME, registered to prevent fraudulent imitations.

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## MIXED PARCELS.

EVERY REQUISITE FOR THE SMOKER IN ONE ORDER.

The following Manufacturers' Packet Tobaccos supplied at their List Prices, CARRIAGE PAID:—

Wills, Cope, Hignett, Gallaher, Taddy, Orden, Phillips, Player, Murray, Archer, Clarke, Brankston, Kennedy, Morris, Mitchell, Smith, Hodge, Lambert & Butler, Pace, Goodwin, Duke, Kinney, Kimball, Richmond Cavendish Company, Carroll, Lorrillard, &c., &c.

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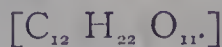
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 BOWERS BROS. ....Chemists' Printing  
 CHIVERNY & Co. ....Portable Aërating Machines  
 CURLING, GEORGE, & Co. ....Wholesale Druggists (Foreign only)  
 GEDDES, WILLIAM .....

NEWBALL & MASON .....

The next opportunity for inserting similar Lists will be in our Special Summer Issue, July, 1891.

# CLASSIFIED LIST OF ALL ADVERTISERS

Whose Announcements appear in "THE CHEMIST AND DRUGGIST." Those whose Names not appear above are published in one of the other issues of this month.

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Apollinaris Co.  
Barnett and Foster  
Chemists' Atrated Waters  
Association.  
Bills & Son (Ruthin)  
Frank, Joseph, Co.  
Guber Spring  
Hassall and Co.  
Hay, W.  
Idris and Co.  
Ingram and Royle  
Jewsbury and Brown  
Kimmond and Co.  
Mills and Co. (Bourne)  
Schacht, W., and Co.  
Schweppe, J., and Co.  
(See OTHER ADS.)

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(See SYRUP AND ESSENCES.)  
Barnett and Foster  
Brathby and Hinchliffe (Ld.)  
Chinnery and Co.  
Gueret Freres.  
José, A., and Co.  
Mason, A. Newton  
Meadowcroft, W., and Son  
Tylar, Hayward, and Co.

## ACETIC ACID

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Greiff, R. W., and Co.  
Morris and Gossard (Walle)

## ALKALOIDS

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Smith, T. and H., and Co.

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May and Baker (Limited)  
White, A., and Son.  
Woolley, Sons and Co.

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Acard, Ed.  
Australian Drug Co.  
Rohley  
Cooking and Co. (Japan)  
Kelson, Grimwade and Co.  
(Melbourne)  
Fongers and Co. (New York)  
Kempthorne, Prosser & Co. N.Z.  
Jennion, B. G., and Co.  
Livy, Jules  
Peake, Allen and Co.  
Prosser, Taylor and Co.  
Roberts (Paris, ac.)  
Rooke, Tompkins and Co. (Melbourne)  
Sharland and Co.  
Soni, W. H., and Co.

## APPARATUS

Clarke, S. (Food Warmer and Bed Tray)  
Grime, J., and Co. (Solentife)  
Parke, Son and Bayment  
Singclair, Tweedie and Co. (Gas Jet)  
Wedgewood & Sons (Mortars)

## ARTIFICIAL EYES

Book, Oscar

## BANDAGES

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Robinson and Sons  
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## BAKING POWDER

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## BATH GLOVES

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Howards and Son  
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Hewlett and Sons  
Howards and Son  
May and Baker (Limited)  
Moses and Co.  
Tyrer, T., and Co.  
White, Alfred, and Son

## BOTTLES

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Barnett and Foster  
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Brathby and Hinchliffe (Ld.)  
Bremitt (Lim.)  
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French Flint Glass Bottle Co.  
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Hearn, E. A., and Co.  
Hearon and Co.  
Johnson and Jørgensen  
Kilner Bros.  
Mark, J., and Co.  
Poth, H., and Co.  
Rosenkranz, J. L.  
Snirley, A. W.  
Thompson, Walters, Hole and Co. (Lim.)  
Toogood, W.  
Vandon, B.

## BOOKS

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Lewis, H. K.  
Minter, Dr.  
Perclval and Co.

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Kilner Bros.  
Moakes, B., and Co.  
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Parramatta, I. W. and Co. Lim.  
Ramus, T.  
Robinson and Sons

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Kent, G. B., and Son  
Moseley, David, and Son

## BUTTER OIL, &c.

Hearon, Squire, and Francis  
Oldfield, Patterson and Co.  
Tomlinson and Hayward

## CAMPION

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Howards and Son  
May and Baker (Limited) (Homocromay & Baker Ltd) (Pathic)

## CASTOR OIL

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Fuerst Bros.  
Greiff, R. W., and Co.  
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Fournier, Son and Co.  
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Lyn, H. and Co.  
May, Roberts and Co.  
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Kowiano, L.

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Fuerst Brothers  
Goodall, Backhouse and Co.  
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Hill, A. S., and Son  
Hodgkinson, Treacher and Clarke  
Howards and Son (Pharm.)  
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Lofthouse and Palmer  
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Poulet, Freres  
Reade Bros. and Co.  
Smith, T. and H., and Co.  
Terra, G. and G. (Fumigant)  
Trommsdorff, H.  
Tyrer, T., and Co.  
White, A., and Son  
Zimmermann, A. and M.

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Davenport (Brown's)  
Towle, A. P., and Son

## CHLOROFORM, &c.

Duncan, Flockhart and Co.  
Greiff, R. W., and Co.  
Mastarlan, J. K., and Son  
Mason, A. H.  
Smith, T. and H., and Co.  
Warrington Chemical Co.  
Wright, Layman and Umney  
Zimmermann, A. and M.

## SITRIC ACID

Hassall and Co. (Phospho)

## COCAINE-HYDRO.

Howards and Son

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Branch, H. and Co.  
Jozani, Gabriel  
Marshall and Co.

## COCA & OROCHIT

Adams, J., Fry and Son  
Christy and Co.  
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Van Houten's Cocoa

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Burruphs, Wellcome and Co.  
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Hill, A. S., and Son  
Lofoden Cod Liver Oil Co.  
Lofthouse and Saltina.  
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Southall Bros. and Barclay  
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(Essence)  
Wilmington and Co. (Cocoa)

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Brooke, Peel and Co.  
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## COMPO. ESSENCES

Raines and Co.

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Blyton, Aetley and Co.  
Burruphs, Wellcome and Co.  
Fuerst Bros.  
Hooper, B., and Co.  
Lloyd, T. H., and Co.  
Lloyds and Co.

## CONFECTIONERY

Blyton, Aetley and Co.  
Gibson, E., and Son  
Kerfoot, T.  
Pasell, J.  
Warwick Brothers

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Evans, Sons and Co.  
Fletcher, Fletcher & Stevenson  
Lloyd, T. H., and Co.  
Southwell, C., and Co.

## CORN CURE

Seabury & Johnson (Clarke)  
Thompson, M. (F. Young, H.)

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Haynes, G., and Co. (Absorbent)  
Robinson and Sons (Absorbent)  
Sanger, J., and Son  
Seabury and Johnson

## CRESED LIME

Mumford, F. G.

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Far, de Botet  
Evans, Sons and Co.  
Ventimien and Co.  
Flintoff, F.

## DEWATERING BROW

Lakeman, J. J. "Salvine"

## LOWE, C.

Queleh, H. C.

## STEVENS, P. A.

Stanton, O., and Co.

## "The Alexandra" (Ziemer)

Thompson and Capper

## WHARRIE, D.

Wood, W. (Arica Nut)

## DISINFECTANTS

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Government Sanitary Co.  
Hamilton and Co. (Lim.)  
Jeyes' Fluid  
National Chemical Co.  
Smith, T. and H., and Co.  
Seabury and Johnson  
Vogt, G., and Co.

## DRUGGISTS' SW.

Ayrton and Saunders  
Bailey, M., and Co.  
Barclay and Sons (Limited)  
Evans, Leecher, and Webb  
Evans, Sons, and Co. (Sawyer)  
Fordham, W. B., and Son (Lim.)  
Gilbertson, H., and Son  
Hill, A. S., and Son  
Hookin, Willson and Co.  
Idris and Co.  
Kay Bros., Lim.  
Lee, T. P., and Co. (Chamole)  
Lynch and Co.  
Mark, J., and Co.  
Marriot, E., and Co.  
Mason, A. Newton  
May, Roberts and Co.  
Queleh, H. C.  
Raklin, W., and Son  
Sanger and Son  
Schutze and Co.  
Thompson, Walters, Hole and Co. (Lim.)  
Toogood, W.  
Wood, Vincent

## DRUG GRINDERS

J. d. n. a.

## DIRECTORY

Drysdale, J. W., and Co.

## EAU DE COLOGNE

Farina, J. M.  
Martin, Marla (Nun)

## ELASTIC HOSE

Wood, V.

## ELECTRIC APPAR.

Darton, F., and Co.  
Gent and Co.  
Lancaster, J., and Son  
Orme and Co.

## ENEMAS

Evans, Sons and Co.  
Sanger and Son

## ENGRAVERS

Parker, W., and Son  
Corran, J. R.  
Young, C. A., and Co.

## ESSENCES

Ainsworth, Clayton and Jowett  
Beckett, W. Boehm, F.  
Brathby and Hinchliffe (Ld.)  
Burgoyne, Burdidge and Co.  
Bush, Son, and Co.  
Bush, W. J., and Co.  
Cummack, J.  
Firth, H.  
Goodall, Backhouse and Co.  
Hay, W., Idris and Co.  
May and Baker (Limited)  
Meadowcroft, W., and Son  
Mullar, A., and Co.  
Newhall and Mason  
Oddie, Rutledge and Co.  
Stevenson and Howell  
Tyrer, P. (Anchovies)  
Tyrer, T., and Co.  
Woolley, Sons and Co.

## ESSENTIAL OIL

Ainsworth, Clayton and Jowett  
Boehm, P.  
Bush, W. J., and Co.  
Bush, W., and Son Co.  
Clay, Dod and Co.  
Cooking & Co. (Japan Pepper)  
Cummack, J. (mint)  
De Luca, C. V.  
Drysdale, J. W., and Co.  
Evans, Sons and Co.  
Firth, H.  
Hodgkinson, Treacher and Largent, G. W. (Clarke)  
Lambert, S., and Co. (Santal Wood)  
May and Baker (Limited)  
Poppelreuter, W.  
Stevenson and Howell  
Symee and Co.  
Tombarel Freres  
Treat, H. C.  
Vogt, G., and Co.  
Warwick Brothers  
Wright, Layman and Umney

## ETHER

Duncan, Flockhart and Co.  
Howards and Son  
May and Baker (Limited)  
Mobbins, J., and Co.  
Tyrer, T., and Co.  
White, A., and Son  
Woolley, Sons and Co.  
Wright, Layman and Umney

## EXTRACTS, FLUID

Allen and Hanbury  
Barber, G., and Co.  
Burgoyne, Burdidge and Co.  
Evans, Sons and Co.  
Fletcher, Fletcher & Stevenson  
Hearon, Squire and Francis  
Hooper, B., and Co.  
Lloyd, T., Howard and Co.  
Moss and Co.  
Potter and Clarke  
Wright, Layman and Umney

## EXTRACT, MEAT

Anstralian Meat Co.  
Bovril (Limited)  
Brand and Co.  
Donner's Peptone and Extract of Meat Co. (Lim.)  
Lieber, C. O.  
Liquor Carnis Co. (Lim.)  
Masou, G., and Co. (Lim.)

## FORMULA

Brooks, T.

## FEEDING BOTTLES

Bebb's Feeding Bottle Co.  
Bebb, E., and Co., Lim.  
Evans, Sons and Co.  
Hearn, E. A., and Co.  
Hookin, Wilson and Co.  
Kilner Bros.  
Marriot, E., and Co.  
May, Roberts and Co.  
Thompson, Walters, Hole and Co. (Limited)  
Toogood, W.

## FLY PAPERS

Ford, Shapland and Co.  
Tunbridge and Wright  
Wilton, S.

## FILTERING

Fordham, W. B., and Son, Lim.

## FOOD (Infants & Invalids)

Allen and Hanbury  
Bach, B., and Co.  
Brand and Co.  
Goodall, Backhouse and Co.  
Hearon, Squire and Francis  
Liebig Co.  
Liquor Carnis Co. (Lim.)  
Mottershead & Co. (Benger's Food)  
Queleh, H. C. (Warmer)  
Ridge, Dr.  
Savory and Moore

## SINGER

Hay, W. (Essence)  
Mills, B. M., and Co.

## GLUE

Deutschemann and Woronicki  
Grove Chemical Co.  
Fordham, W. B., and Son

## GLYCERIN

Fink and Co. (Fuerst Bros.)  
Greiff, R. W., and Co.  
Lofoden Cod Liver Oil Co.  
Moses and Co.

## GRANULAR PREP.

Blyton, Aetley and Co.  
Curtis and Co.  
Hearon, Squire and Francis  
Hill, A. S., and Son  
Kerfoot, T.  
Wright, Layman and Umney

## SUM

Fink and Co. (Arabic, ac.)  
Deutschemann and Woronicki  
Greiff, R. W., and Co.  
Hyde, Nash and Co.  
Levermore Aug., and Co.

## HAIR PREP.

Chesbrough Mfg. Co.  
Edwards and Co.  
Truefitt, H. P. (Limited)

## HERB BEER EXTS

Lakin, W. H.  
Newhall and Mason  
Oldfield, Patterson and Co.  
Potter and Clarke

## HERBALISTS

Butler, McCulloch and Co.  
Newhall and Mason  
Potter and Clarke

## HOMOEOPATHIC

Keene and Ashwell  
Leath and Rose  
Thompson and Capper  
Watson and Wates

## HOSPITALS

London Homoeopaths

## HYPOPHOSPHITES

Duncan, Flockhart and Co.  
Fellowe  
Fletcher, Fletcher and Co.  
Reade Bros. and Co.  
Symee and Co.  
Tyke and King

## INHALERS

Christy and Co.  
Evans, Sons and Co.  
Hookin, Wilson and Co.  
Queleh, H. C.  
Sprime Co. The  
Toogood, W.

## INSECTICIDES

Sanford and Co.  
Steiner and Co.  
Thompson, Walters, Hole and Co. (Lim.)  
Vogt, G.

## INK [See MARKING]

Bewley and Draper  
Duncan, Flockhart and Co.

## KETCHUP

Tyrer, P.

## LAMPS

Clarke's  
De Luca, G. V.

## LEAD

Ewen, J., and Son

## LIFE ASSURANCE

Standard Assurance Co.

## LINSEED POULTICE

Seabury and Johnson

## LINT

Liverpool Lint Co.  
Newsome, J.  
Robinson and Sons  
Seabury and Johnson

## LOZENGES

Allen and Hanbury  
Blyton, Aetley and Co.  
Gibson, E., and Son (Mentha.)  
Hill and Son  
Kerfoot, T.  
Pasell, J.  
Raines and Co.  
Randall and Son  
Stern, G., and G.  
Warwick Bros.

**LIME JUICE**

Evans, Fone and Co.  
Loris and Co.

**LITHIA**

Fueret Bros.

**MACHINERY**

Reyer Bros.  
Wurroughs, Wellsome and Co.  
Foster, F.  
Holroyd, J., and Co. (Lim.)  
Palau and Co.  
Shears and Son  
Werner and Pfleiderer

**MAGNESIA**

Andreas, Oscar, and Co.  
Buen, W., Son and Co.  
Blanchard and Co.  
Greiff, R. W., and Co.  
Henry, T. and W. (Limited)  
Hill and Sons, A. S.  
Kerfoot, T. (Citrate)  
Quelch, H. O.  
Southwell, C. and Co. (Citrate)

**MALT EXTRACT, &c.**

Allen and Hanbury  
Baelz, E., and Co.  
Burroughs, Wellsome and Co.  
(Kenner)  
Geddes, W.  
Hearon, Squire and Francis  
Oppenheimer Bros. and Co.  
Reade Bros. and Co. (Biscuits)  
Wyleys and Co.

**MANICURE****PREPARATION**

Carmichael, M. W.  
Dr. Paul's

**MARKING INKS**

Barber, G., and Co. (Crimson)  
Hickson, J.  
Marx, M. and E.

**MEDICINE CHESTS**

Day, Son and Hewitt (Veterinary)  
Day and Sons (Veterinary)

**MENTHOL**

Al Menthol Depot, A. W.  
Shirley, Proprietor  
Evans, Sons and Co.  
Hockin, Wilson and Co.  
Seabury and Johnson  
Thompson, Walters, Hole and Co. (Lim.)  
Tyrer, P.

**MERCURIALS**

Fueret Brothers  
Howard and Son  
May and Baker (Limited)

**METHYLATED**

**SPIRITS**  
Boord and Son  
Murrough, J.  
Harvey, J. and W., and Co.  
Jones and Co.  
Phillips, G., and Co.  
Smith, S., and Co.

**METHYLENE**

Robbins, J., and Co.

**MICROSCOPES**

Darton, F., and Co.  
Perken, Son and Bayment

**MILK**

Nestle, H. (Condensed)

**MIXING****MACHINERY**

Gardner, W.  
Werner and Pfleiderer

**MORPHIA**

Macfarlan, J. F., and Co.  
Smith, T. and H.

**OILS, PAINTS, &c.**

Colthart and Hardie  
Hugh Highgate and Co.  
Fox, W., and Sons

**ointment bases**

Burroughs, Wellsome and Co.  
Chesebrough (Vaseline)  
Grindley and Co. (Petroleum Jelly)

**OPTICIANS**

Botwright and Grey  
Lancaster and Son  
Lancaster and Son  
Lancaster and Son  
Lancaster and Son

**OTTO OF ROSE**

Finth, H.  
Fueret Bros.  
Moryoseph, A.  
Treat, K. C.

**PAPAIN FINKLE**

Knab, B.

**PEPSINE, &c.**

Burroughs, Wellsome and Co.  
Chesebrough and Co.  
Fletcher, Fletcher and Stevenson  
Greiff, R. W., and Co.  
Hearon, Squire and Francis  
Stern, G. and G.  
Werner and Co. (Inulin)  
**PEPPERMINT OIL**  
Cocking and Co.

**PATENT MEDICINES**

Armbricht, Nelson and Co.  
Atkinson and Barber (Infant Preserv)  
Barelay and Sons (Limited)  
Becham, T. (Pills)  
Crouch, F. B.  
Edwards and Son  
Evans, Leacher and Webb  
Fennings (Powders)  
Globe Chemical Co.  
Goodall, Backhouse and Co.  
Guy's Tonic  
Holloway (Pills and Oint.)  
Lalor (Phosphodyne, &c.)  
Lincoln (Olarke's Mix.)  
May, Roberts and Co.  
Newbury and Sons  
Powell, T. (Limited)  
Radams Microbe Killer Co. (Lim.)  
Roberts and Co. (Foreign)  
Sequah (Limited)  
Sutton, W., and Co.  
Thompson, Walters, Hole and Co. (Lim.)  
Vogeler, The Charles A., Co.  
Wilcox and Co.  
Willford and Co.  
Wilson, A. (Bunter's Natives)

**PATENT AGENTS**

Horn and Son  
Thompson, W. P., & Co.

**PERFUMERY, FANCY SOAPS**

Bayley and Co.  
Blondeau and Co.  
Boehm, F.  
Burroughs, Wellsome and Co.  
Chesebrough Manufacturing Co.  
Chiswick Soap Co.  
Coward, G. F.  
De Luca, C. V.  
Dee Oil Co. (Limited)  
Deutchmann and Woronick  
Durrant, Geo. (Soaps)  
Evans, Sons and Co.  
Farrina, J. M.  
Firth, H.  
Giraud Fils  
Grindley, T. R., and Son  
Hartick and Co. (Lim.)  
Johnson and Co.  
Legrand, L.  
Mann, O. A., and Co.  
Newbury and Sons (Berdoes')  
Oftinger, E.  
Peare's Soap  
Price's Patent Candle Co.  
Raynaud, Claude, and Co.  
Rommers Manufacturing Co.  
Ronne and Co.  
Sainbury, S. (Lav. Water)  
Shirley, A. W.  
Stevenson and Howell  
Thompson, Walters, Hole and Co. (Lim.)  
Treat, R. C.  
Trueitt, H. P. (Limited)  
Warrick Brothers  
West, T. (Ockell's Mena)  
Woolley, Sons and Co. (Powder)  
Young, R. D.

**PEROX. OF HYD.**

Dunn and Co.  
Robbins and Co.

**PETROLEUM**

Dee Oil Co. (Limited) (Jelly)  
Grindley and Co. (Jelly)  
Hamilton and Co. (Lim.)  
Hartick and Co. (Lucilline)  
Snowdon, Sons and Co. (Jelly)

**PHARM. PREPS.**

Allen and Hanbury  
Barron, Harvey and Co.  
Bayley, C.  
Boehm, F.  
Burgoyne, Burbridge and Co.  
Burroughs, Wellsome and Co.  
Chesebrough and Co.  
Curling, G., and Co.  
Dee Oil Co. (Limited)  
Deutchmann and Woronick  
Duncan, Flockhart and Co.  
Fellowe  
Ferre and Co.  
Firth, H.  
Fletcher, Fletcher and Co.  
Fournier, Bon and Co.  
Geddes, W.  
Giles Schacht and Co.  
Greiff, R. W., and Co.  
Green, C., and Co.  
Hearon, Squire and Francis  
Hewlett and Son  
Hill, A. S., and Son  
Hooper, B., and Co.  
Howard and Sons  
Jeyes Sanitary Compounds Co.  
Jordan and Co.  
Keith and Co. (Ozone, Tinctures)  
Layton, K. O.  
Marlindale, W.  
May and Baker (Limited)  
Moryoseph, A.  
Ritter and Clarke  
Rankin and Holland  
Riebles and Co.  
Roberts and Co.  
Southall Bros. and Barclay  
Sutton, W., and Co.  
Sykes and Co.  
Trommerdorf, H.  
Tyrer, T., and Co.  
White, Alfred, and Sons  
Willows, Francis and Butler  
Woolley, Sons and Co.  
Wyleys and Co.

**PHOTOGRAPHIC**

Botwright and Grey  
Darton, F., and Co.  
Fallowfield, J.  
Greiff, R. W., and Co.  
Hearon, Squire and Francis  
Lancaster, J., and Son  
Marion and Co.  
Orme, J., and Co.  
Perken, Son and Bayment  
Tyrer, T., and Co.  
White, Alfred, and Sons

**PILL MACHINES**

Palau, N., and Co.  
Pindar, J. W.  
Toogood, W. (Coater)

**PORCELAIN GOOD**

Toogood, (H.C. Pots, regist.)

**PILLS Coated, &c.**

Allen and Hanbury  
Anderson, Apothecaries Hall  
Beecham, Thomas  
Blair's Grit Pills  
Blyton, Asley and Co.  
Champion, A., and Co.  
Eade's Gout Pills  
Evans, Sons and Co.  
Hearon, Squire, and Francis  
Hill, A. S., and Son  
Holloway's  
Hopper, E.  
Lloyd, T., Howard and Co.  
McKesson and Robins  
Newbury and Sons  
Robinson's  
Wand, S.  
Warner, W. B. and Co. (Coated)  
Wyleys and Co.

**PODOPHYLLIN, &c.**

Keith, B., and Co.  
Smith, T. and H., and Co.

**PLASTERS**

Evans, Sons and Co.  
Johnson and Johnson  
Wether, W.  
Pattison, Geo.  
Quillman, J., and Co.  
St. Dalmat, A. De  
Seabury and Johnson  
Thompson, W. P., & Young, H.

**POLISHING**

Beckett, S.  
Bradley and Bonrad (Alumina)  
Chancellor, C., and Co. (Stove)  
Fordham, W. B., and Co. (Limited)  
Oakley, John, and Sons

**PRINTING**

Bowers Bros.  
Corean, J. R. (Glass)  
Cyclostyle Co.  
Ford, Shapland and Co.  
Silverlock, H.  
Thompson, J.  
Zuccato and Woolf.

**PUMILINE**

Stern, G. and G.

**QUININE SALTS**

Andreas, Oscar, and Co.  
Boehringer, C. F., and Sohn  
Greiff, R. W., and Co.  
Howard and Sons  
Kuhn, B.  
Kimmermann and Co.

**RENET**

Duncan, Flockhart and Co.  
Greiff, R. W., and Co.  
Oldfield, Pattinson and Co.

**RESPIRATORS**

Lynch and Co.  
Newbury, F., and Sons

**SACCHARIN**

Allen and Hanbury  
Burroughs, Wellsome and Co.

**SALICIN**

Macfarlan and Co.  
Smith, T. and H., and Co.

**SALICYLIC ACID**

Burgoyne, Burbridge and Co.  
Fueret Bros.  
Zimmerman, A. and M.

**SALT**

Stern, G. & G. (Pepealia)

**SALOL**

Kuhn, B.

**SAUCES, PICKLES**

Goodall, Backhouse and Co.  
March, G., and Co. (Lim.)  
Tyrer, F.

**SCENOLLS, &c.**

City School of Chemistry and Pharmacy (Lim.)  
Liverpool School of Pharmacy  
London Homoeopathic and Medical School  
Manchester College  
Northern School of Pharmacy  
South London School of Pharmacy, Lim.  
South-west London School of Pharmacy  
The School of Pharmacy  
Westminster College

**SHEEP DIP**

Fletcher Bros. and Co.  
Greiff, R. W., and Co.  
Jeyes Sanitary Compounds Co.  
Winkler

**SILICOGENES**

Hyathy and Hinchliffe, (Ld.)  
British Syphon Co.  
Evans, Sons and Co.  
Lynch and Co.  
May, Roberts and Co.  
Thessier, E.

**SHOP FITTERS**

Bowling and Govier  
Bygrave, J. and W.  
Evans, Sons and Co.  
Howlett, S.  
Natali, E.  
Pothe, H., and Co.  
Treble, G., and Co.  
Yates, W. H.

**SHOW TABLETS**

Gem Glass Co.

**SMELLING SALTS**

Mackenzie's Cure Depot

**SOAP**

Ayrton and Saunders  
Bayley and Co.  
Blondeau and Co. (Vaseline)  
Bronnley, H., and Co.  
Colwies soap Co.  
Cook, E., and Co.  
Evans, J., and Sons  
Fordham, W. B., and Sons (Ld.)  
James, F., and Co. (Dermatol)  
Jeyes Sanitary Compounds Co.  
Lucas and Co.  
Peare's Soap  
Stern, G. and G.

**SPONGES**

Creswell Bros.  
Evans, Sons and Co.  
Farrina, J. M., and Co.

**SPECTACLES**

Botwright and Grey  
Darton, F., and Co.  
Perken, Son and Bayment  
Rephel and Co.

**SPIRIT**

Boord and Son  
Burroughs, J. (Pure Methyl)  
Harvey, J. and W., and Co.  
Jones and Co. (Methyl)  
Macfarlan, A., and Co.  
Phillips and Co.  
Smith, Stephen and Co.

**STAMPS (Rubber)**

Berkley, J.  
Hickeson, J.  
Pollard, A. W.

**STARCH**

Beckett, S.  
Crichtley (Glass)

**STOPPERS**

Anett and Co. (Sprinklers)  
Bernett and Foster  
Panders, H. and Co.  
Stipendum Stopper Co. (Lim.)

**STOVES**

Clark, S., and Co. (Lim.)

**SUGAR**

Fletcher, Fletcher and Stevenson  
Glosson, B., and Sons

**SURGICAL**

Ayrton and Saunders  
Bailey, W. H., and Son  
Barelay and Sons (Limited)  
Christy, T., and Co.  
Cocking, J. T.  
Echmann Bros. and Walsh  
Haywood, J. H.  
Ingram and Son  
Invigorator Corset  
Liverpool Patent Limit Co.  
Meathier and Co.  
Robinson and Sons  
Saville Wood Wool Co. (Lim.)  
Schute, F., and Co.  
Thompson, Walters, Hole and Co. (Limited)  
Wood, F.  
Wood, Vincent

**SULFONAL**

Burroughs, Wellsome and Co.  
Greiff, R. W., and Co.  
May and Baker (Limited)

**SYPHONS**

Barnett and Foster  
Hyathy and Hinchliffe (Ld.)  
British Syphon Co.  
Thessier, E.

**STRINGS**

Rock, O.  
De Luca, G. V.  
Schaeffele, J. & J. Frères

**SYRUPS**

Fletcher, Fletcher (Liquors)  
Idris and Co.

**TABLETS**

Corsan, J. R. (advertising)  
Gem Glass Co. (Ld.) (advertising)

**TEETHING PADS**

Thompson, Walters, Hole and Co. (Lim.)

**TILL**

Stokes, G. R. & Co.

**TINS**

French and Langdale  
Gt. Tower St. 100 Co.  
Walker and Dairyville

**THERMOMETERS**

Bailey, W. H., and Son  
Bock, O.  
Darton, F., and Co.  
Evans, Sons and Co.  
Farrina, J. M. and Son

**TINS**

Nonkee, B., and Co.

**TOMACCO, CIGARS****CIGARETTES**

Peacock, M., and H.  
Ringleton and Cole (Lim.)  
Taddy and Co.

**TOILET**

Evans, Sons and Co.  
Fordham, W. B., and Sons (Lim.)  
Glyzine Co.  
Hovenden and Sons (Euxels)  
Lloyd, A. S., Euxels  
Mumford, G. A.  
Quelch, H. O.  
Rowland, A., and Sons  
Trent, H. F. (Limited)  
Woolley, Sons and Co.

**TOOTH PASTE**

Jewsbury and Brown  
Sutton, O., and Co. (Block)  
Wilson, A. (Bunter's)  
Woods, M. (Areea)

**TRADE MARKS**

Horn and Son

**TRUSSES**

Bailey, W. H., and Son  
Colwell, H. M.  
Evans, Sons and Co.  
Farrina, J. M.  
Mather, W.  
Thompson, Walters, Hole and Co. (Lim.)  
Wood, F.  
Wood, V.

**URETHANE**

Howard and Sons

**VACCINATION**

Vaccine Association (Lymph)

**VALUERS AND****TRANSFER AGENTS**

Berdoo and Co.  
Britt, F. J.  
Crocker, G. B.  
Orridge and Co.

**VASELINE**

Chesebrough Manufacturing Co.

**VERMIN KILLERS**

Sanford and Son

**VINOLIA**

(Superfatted Medical and Toilet)  
Blondeau and Co.

**VETERINARY**

Day and Son  
Day, Son and Hewitt  
Dyer, K. H.  
Eitman, Sons and Co.  
James, W. H. (Blister)  
Jeyes Sanitary Compounds Co.  
Larkin, W. H.  
Learner, A. J.  
Lloyd, T., Howard and Co.  
Rookledge, J.  
Spratts (Dokal)  
Walker, Troke and Co.  
Wyleys and Co.

**WHOLESALE AND****EXPORT DRUGS**

Allen and Hanbury  
Barron, Harvey and Co.  
Burgoyne, Burbridge and Co.  
Buen, W., Son and Co.  
Bush, W., and Co.  
Clay, Doc and Co.  
Coward, G. F.  
Curling, G., and Co.  
Evans, Sons and Co.  
Evans, Leacher and Webb  
Evans and Sons (Limited)  
Ferre and Co.  
Fox, W., and Sons  
Goodall, Backhouse and Co.  
Harker, Stagg and Morris  
Hearon, Squire and Francis  
Hewlett and Son  
Hill, A. S., and Son  
Hockinsons, Treacher  
Clarke  
Leithouse and Saltme  
Lloyd, T., Howard and Co.  
Macfarlan, J. F., and Co.  
Oldfield, Pattinson and Co.  
Pettit and Clarke  
Sykes and Co.  
Thompson, Walters, Hole and Co. (Lim.)  
Walker, Troke and Co.  
Willows, Francis, and Butle  
Wyleys, J. A., Sons and Co.  
Wynne, Layman and Umney  
Wyleys and Co.

**WINE, SPIRITS**

Armbricht, Nelson and Co.  
Cochran and Co.  
Durrant, G. (Orange) Malt  
Goodall, Backhouse and Co.  
Loris and Co.  
Muller, A., and Co.  
Robinson, B.

# NEWBERY'S CATALOGUE, 1891.



13, 7 KING EDWARD STREET,  
NEWGATE STREET  
LONDON E.C.

Agents  
pour la vente de  
Médicaments  
Spéciaux,  
Objets de Pharmacie,  
Parfumerie, &c.

Agenti di  
Specialità farmaceutiche,  
Inglese ed estere;  
Oggetti per uso dei  
Farmacisti, Profumerie, &c.

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Cures  
Headache.



Cures  
Sea-  
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"Brain Salt" suits sufferers, pleases the public, is recommended by medical men, and should be kept by chemists generally. Contracts have been made for continuous high-class advertising, and the sale of the preparation is assured. One size only, 2/9 retail, and price not "cut."

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FREDERICK BARRY, from Savory & Moore's Dispensing,  
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"GENTLEMEN,—I do not as a rule recommend proprietary medicines, but having seen such good results from the use of 'BRAIN SALT,' as you term your remedy for headache, &c., I have much pleasure in making an exception to the rule. To select one case from several of a similar kind: I sold a bottle of this preparation to a lady suffering from severe nervous headache to which she was occasionally subject.

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Ess. Bouquet .. .. .	per 20 oz.,	0 8 7
Frangipane .. .. .		
Jasmin .. .. .		
Jockey Club .. .. .	per 10 oz.,	0 4 4
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New Mown Hay .. .. .		
Opoponax .. .. .	per 5 oz.,	0 2 3
Patchouli .. .. .		
Rondeletia .. .. .		
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The above are the leading Essences, and to these the special attention of customers is asked. Those who desire greater variety will find in "Newberry's Catalogue" a more extended list

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5 oz., 2s. 7d.

Eau de Cologne .. .. .	per 20 oz.,	0 4 4
Lavender Water .. .. .	" 10 "	0 2 2
	" 5 "	0 1 2

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In Handsome Show Bottles for the Counter,

ROSE CUT STOPPERS, VITRIFIED OPAL SHIELD LABELS with GOLD BORDER &amp; BLACK LETTERS



Sketch showing an assortment of 20-oz. and 40-oz. Berdoe's Show Bottles. Height of two centre (round) Bottles, to top of Stoppers, about 9½ inches. Height of remaining (oval) Bottles, about 9¼ inches to top of Stopper. Labels are gilt-bordered, and written in **Black** on a permanent White Enamel.

Ess. Bouquet .. .. .	In 20-oz. Show Bottles, Oval, 11/6 each.
Frangipane .. .. .	
Jasmin .. .. .	
Jockey Club .. .. .	
Millefleurs .. .. .	
New Mown Hay .. .. .	
Opoponax .. .. .	
Patchouli .. .. .	
Rondeletia .. .. .	
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Lily of the Valley .. .. .	In 20-oz. Show Bottles, Oval, 13/- each.
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White Heliotrope .. .. .	
White Rose .. .. .	
Wood Violets .. .. .	
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Triple Perfume in Oval Stoppered Bottles (4-oz.	
Miniature of Counter Bottles), with Vitrified Labels.	
In handsome cases of 1-12 or 16 dozen .. per doz.	
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1,000 PILLS IN SHOW VASE, 5/6.

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Unequalled in their medicinal properties or in SOLUBILITY, the best ingredients being invariably employed.

*Suitable for Retail Sale, in Screw-capped Pill Tubes. Not liable to Stamp Duty unless specially recommended or sold as "Proprietary."*

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Aloin, 1-10 gr.; Podophyllin, 1-5 gr.; Ext. Hyoscy., 1-20 gr.; Jalapin, 1-10 gr.; Ext. Nuc. Vom., 1-20 gr.; Ol. Res. Capsici, 1-20 gr.  
Dose 1 to 4.

Per 1,000.  
in Plain Bottle,  
4/-.

Per Small Stoppered  
Vase with painted  
glass label,  
5/6.

Per Stoppered Vase,  
with painted glass  
label, (5,000.)  
21/-.

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R. Podophyllin,  $\frac{1}{2}$  gr.; Ext. Colocynth,  $\frac{1}{2}$  gr.;  
Pv. Soc. Aloes, 1 gr.; Pv. Scammony,  $\frac{1}{2}$  gr.;  
Pv. Saponis, 1-8 gr.; Ext. Hyoscyami, 1-8 gr.;  
Gingerine, 1-8 gr. Dose, 2 to 4 pills as a  
purgative, 1 to 2 pills as an aperient.

Per 1,000.  
in Plain Bottle,  
4/-.

Per Stoppered Vase,  
with painted glass  
label,  
6/4.

Per Bottle (Bulk)  
of 5,000,  
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Write for New Complete Price List of PILLS, GRANULES and PARVULES, &c.,  
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250 excellent Formulæ, at moderate and greatly reduced prices.

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The Vases are fitted with hand-painted, gold-bordered Labels, of which the following are usually in stock. It is to be noted that the purchaser should, when ordering, state explicitly the FORMULA and VASE-LABEL required, as for example — "Three Vases, No. 120," labelled "Aperient," "Liver," and "Compound Podophyllin" Pills. Soluble Sugar-coated:—

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The essential principle of the gizzard, and bearing the same relation to poultry that pepsin does to the higher animals. A powerful nitrogenous radical was (about 1850) discovered in the gizzard, which was shown by experiment to possess many of the properties of pepsin. Where the latter refuses to act, and where, in severe cases, it has even been rejected by the stomach, Ingluvine has effected relief rapidly and with ease. (Per oz. bottle, 4s. 6d.)

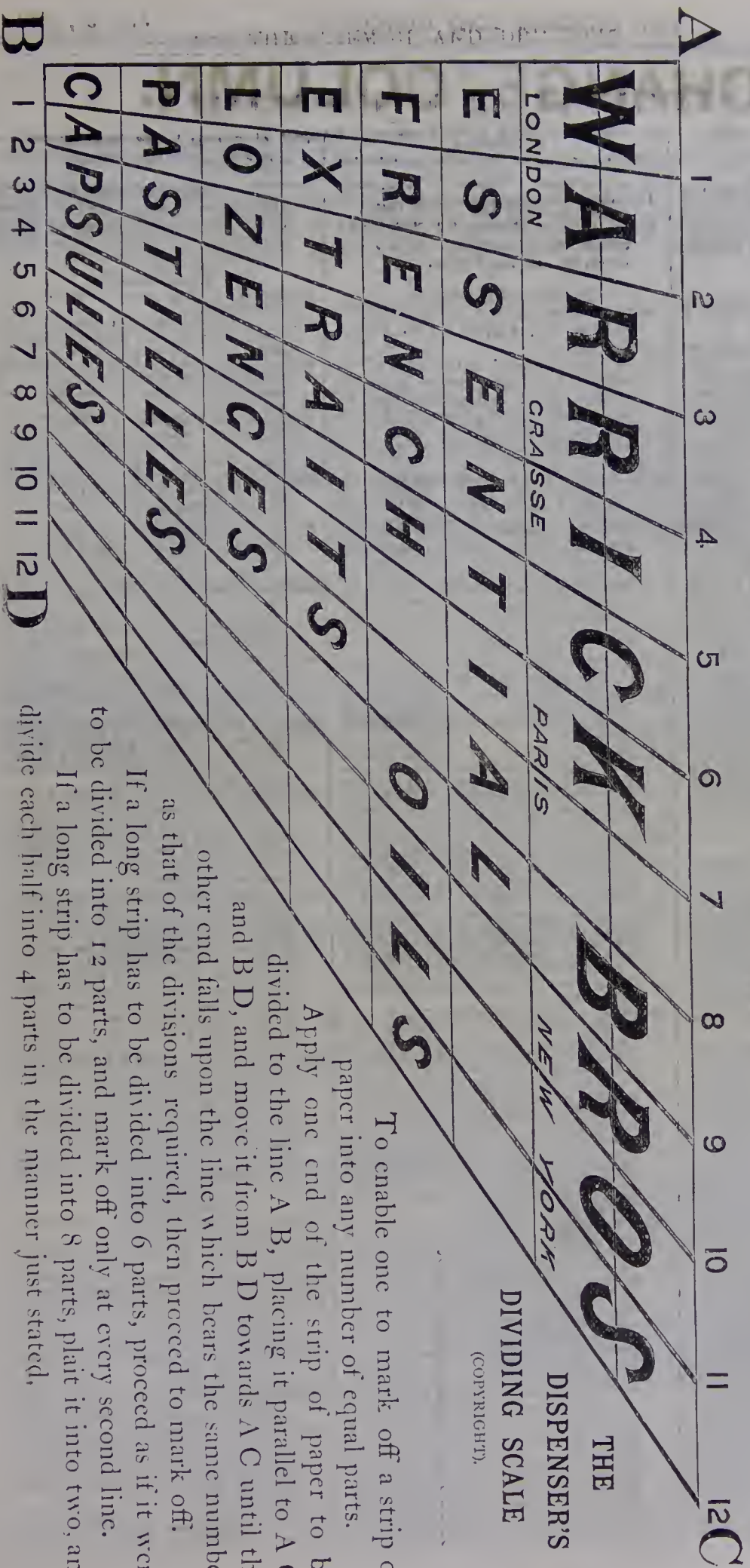
F. NEWBERRY & SONS (Estab. A.D. 1746), 1 & 3 King Edward St., London, E.C.

This may be cut out and affixed to Cardboard for use.—WARRICK BROTHERS.

# Warrick Brothers' Dispenser's Dividing Scale

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To enable one to divide a strip of paper (for marking doses on bottles) into any number of equal parts.



To enable one to mark off a strip or paper into any number of equal parts.

Apply one end of the strip of paper to be divided to the line A B, placing it parallel to A C and B D, and move it from B D towards A C until the other end falls upon the line which bears the same number as that of the divisions required, then proceed to mark off.

If a long strip has to be divided into 6 parts, proceed as if it were to be divided into 12 parts, and mark off only at every second line.

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### Proprietary Articles.

Sweet solid perfumes, most lovely odours: last for years, sell like ripe cherries; nothing like them in market; recipe with sample dozen 2d. blocks, post free, 2s. 6d.; samples of four kinds, 6d. Tom Brooks, Chemist, Hornsey, N.

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Splendid mahogany materia medica cabinet, for Major course; 190 specimens. Offers, Wooliam, High Street, Whitechurch, Salop.

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Reliable recipes, 6d. each; full set of 130 neatly copied in book, 7s. 6d.; send for list. "Chemist," Edwards, Wye, Kent.

Chilblains.—The "Canadian Cure," acts like magic, cleanly, economical, profitable; recipe, with 12 sample boxes (retailing 2d. each), post free 2s. Glycerine cream, infallible remedy for chaps, frost-bite; keeps hands soft and white. Licorice and glycerine, pleasant, efficacious, Cough-syrup, very profitable, honestly recommended. Recipes 7d. each, above 3 for 1s. 6d. Tom Brooks, Chemist, Hornsey, N.

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10 lbs. pulv. cuhehe, 1 lb. ext. bellad., 8 oz. arg. nit. forr., 1 lb. icdoform, 2 lbs. socii salicylic, 3 lbs. ferri quinine cit.; all guaranteed best; 15 per cent. London net drug list, or exchange Beceham's, Fno's, Winslow's, chlorodyne. Scott Fowler, Portsea.

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Second-hand operating-chair by Archer; price 5l. Ellis, Dental Surgeon, Sandown.

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Drawers—12 ft. run of solid mahogany fronts, with hvelled-edged glass labels and glass knobs, lockers under same, and shelving with cornice over; a very handsome fitting, equal to new; price 15l. 10s. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Counters—2 solid mahogany, with plate-glass doors in front, one 12 ft. long, price 12l. 10s.; the other a 6 ft. dispensing counter, price 6l. 10s.; would sell separate. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Dispensing screen, with mirror centre, 6 ft. long, very handsome, price 6l. 10s.; revolving front tooth-brush case, 60s.; desk and case, 50s.; quantity of gold-labelled shop rounds, carboys, specie jars, &c., very cheap. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Bargains.—All numbers refer to Maw's illustrated list. Cases as A16, with table in centre, 9 ft. 6 in. long, for 6l.; plate-glass ditto, 3 ft. long, 5 ft. 6 in. long, 3 ft. 3 in. long, 4 ft. 6 in. long, 2 ft. 6 in. long; as A15, 2 ft. 10 in. long and 1 ft. 10 in. wide; several others at low prices: as A18, 5 ft. long, 9s.; ditto, 6 ft., 7 ft., and 8 ft. long, cheap; tooth-brush cases, as A10 (not revolving); ditto, as A9; also desks and cases, as A31 and 32, cheap; show stands, as A37; sponge cases, as A41 and 43; also large stock of flat plate-glass cases on stands, cheap. Ekanah Natali, 207 Old Street, Shoreditch End, London, E.C.

Glass fronted counters, with movable shelves, 6 ft. long and 12 ft. long, 3 ft. high, cheap; 12 ft. run of drawers, with glass labels and glass knobs, bottle lockers under, cover-board, upright shelving, cornice, &c., complete, 10l.; several nests of drawers, 2 ft., 4 ft., 6 ft., 8 ft., 10 ft., 12 ft. long, at low prices; ointment jars, bottles, specie jars, jubbe jars, pill machines, mortars, &c.; cheap line of counters, mahogany-fronted, 15 ft. 8 in. long, ditto, 11 ft. 6 in. long; ditto, 8 ft. long, cheap. Dispensing screens, with silver glass centres and cases at each side, with tablets on top "Dispensing Department," 6 ft., 6 ft. 3 in., 7 ft., and 8 ft. cheap; sketch on application; ditto as A54 and 55; 4 ft., 5 ft., 6 ft., and 7 ft. long, from 65s.; wall-case, A86, 8 ft. long, whitewood polished mahogany, mahogany and plate-glass wall-cases, 4 ft. 3 in. long and 5 ft. 3 in. high; ditto, 4 ft. 10 in. long by 5 ft. 5 in. high; several other cheap glass show stands, 3 shelves as fig. 2, 3, 4 and 5. Ekanah Natali, 27 Old Street, Shoreditch End, London, E.C.

Wall cases, several very handsome for sale. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Chemist's shop-fittings for sale, together or separate, counters, dispensing screen, drawers and shelving, bottles, carboys, counter and wall cases, &c., all in first-class condition. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

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Crawshaw's 6d. dyes, patent medicines, &c.; cheap, 8s. 9d.

Sundry nests of drawers, oases, tinctures, drugs, silver-mounted salts; state requirements, 8s. 7.

Bismark, 10d., Magenta 2s. Grey's "Supplement" "Pathology," Hooper's "Dictionary"; large water-bed. J. H., 44 Loudon Road, Manchester.

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Neo-cyclostyle, letter-paper size, complete with pen, ink, paper, &c.; not been much used; cost 31s. 6d., sell 25s. or offer. Hankinson, Grange-over-Sands.

12 strong galvanised-iron rectangular store bins, 6s.; 12 cylindrical do., 3s.; will hold liquids; 4 gall. copper conical spirit-measure, 5s.; stamped. 2 Wallace Street, Leeds.

Genuine old violon by Stadlmann, fine tone, good condition, flat model, with case and good silver-mounted bow; price 10l. warranteu; will be sent on approbation. Kittle, Queen Street, Horsham.

For sale.—Brass counter-pump for petroleum in good condition, 15s. or offer; exchange Chemist and Druggist, 1891, for *Pharmaceutical Journal*, posted Saturdays. Hartill, Pharmacist, Ciseley, Bilton.

Cigars—6 100's choice, 9s., cost 11s. 6d.; 10 50's 1887, 4s. 3d., cost 6s.; 6 100's, very fine Mexicans, 16s. 6d., cost 24s.; 4 100's Havanna, 21s., cost 32s., fine sound condition. Slater, Beeston Hill, Leeds.

Microscopic—Pretty and unscientific slides, suitable for entertaining friends; also new, rare, and brilliant polarising, and a few dozen typical botanical sections, mostly double stained; 5s. dozen; exchange invited; list free; approval. Henry Eobage, Framlingham, Suffolk.

Ten 3-lb. maroon jars, dome covers, gilt mouldings, labelled, inside linings, and 12 8-oz. ditto, 3l. 10s.; 1 specie-jar, 31 in. high, with gilt glass cover, scroll label, 1l. 15s.; soda-water stand, marble top, 24 in. by 20 in., 2l. 5s.; 11 new specie-jars, 12½ in. high, with glass covers, 2s. 6d. each; new plate-glass counter-case, ebonised, 4 ft. by 2 ft. by 9 in. high, trays, mirrors on flaps, 4l. 10s.; several nests of drawers; shop-rounds. W. Hawae & Son, Wild Court, Great Wild Street, London, W.C.

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MANUFACTURING CHEMISTS,

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ALSO MOIST ANTISEPTIC DRESSINGS & ABSORBENTS.

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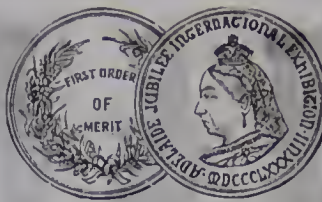
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## FOR INFANTS, CHILDREN, AND INVALIDS.

This delicious and highly nutritive Food was awarded the GOLD MEDAL at the International Health Exhibition, London, and has since received a High Award at every Exhibition at which it has been shown.

BENGER'S FOOD is well known to leading medical men, and is recommended by them.

*The following extracts from the Medical Journals sufficiently indicate its high character, and the estimation in which it is held alike by the Medical Profession and by the Public:—*

The LANCET of March 25th, 1882, says:—

"Would be assimilated with great ease."

The BRITISH MEDICAL JOURNAL, August 25th, 1883, says:—

"Benger's Food has by its excellence established a reputation of its own."

The ILLUSTRATED MEDICAL NEWS, Dec. 22, 1888, says:—

"Benger's Food is a preparation devised on original lines, and which we can speak of in the highest terms. . . . Infants do remarkably well on it, and it is most suitable for many conditions in adults and old people. Amongst other things, we may mention that this food has been found extremely useful in the Summer Diarrhoea met with in some of our Colonies, where the distaste for food and difficulty of digestion are very marked. There is certainly a great future before it."

The LONDON MEDICAL RECORD, March 15, 1882, says:—

"It is palatable and excellent in every way. It is taken readily both by adults and children. We have given it in very many cases with the most marked benefit, patients frequently retaining it after every other food has been rejected. For children who throw up their food in curdled masses it is invaluable."

The JOURNAL DE MÉDECINE DE PARIS, March 17, 1889, says:—

"C'est un exemple heureux de l'application des données de la science à la pratique, et nous ne doutons pas que ce produit ne jouisse bientôt en France de la grande vogue qu'il s'est légitimement acquise en Angleterre."

The HEALTH JOURNAL, November, 1883, says:—

"We direct especial attention to this article because it is a good illustration of the practical application of scientific knowledge to one of the everyday requirements of mankind."

From an Eminent Surgeon.

"After a lengthened experience of Foods, both at home and in India, I consider 'Benger's Food' incomparably superior to any I have ever prescribed."

A Medical Man writes:—

"This particular food is the only one I have been able to take constantly and with advantage. I have prescribed it for others with the best results."

BENGER'S FOOD is sold in Tins at 1s. 6d., 2s. 6d., 5s., and 10s. each, by Chemists, &c., everywhere; and may be obtained through BARCLAY, EDWARDS, SANGER, SUTTON, NEWBERRY, and all the leading Wholesale Houses; or of the Manufacturers—

**MOTTERSHEAD & CO.** (S. Paine & F. B. Benger),  
 7 EXCHANGE ST. AND OTTER WORKS, MANCHESTER.

# SYR. HYPOPHOS. CO., FELLOWS

CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup, with a SLIGHTLY ALKALINE REACTION.

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste, easily borne by the stomach, and harmless under prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis, Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion, it promotes assimilation, and it enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence the preparation is of great value in the treatment of mental and nervous affections.* From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

## NOTICE—CAUTION.

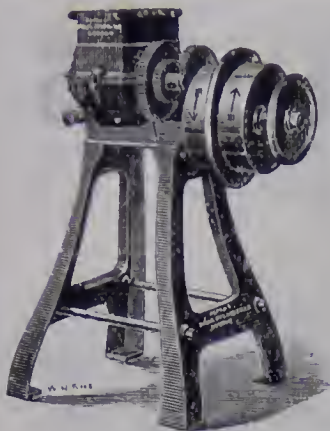
The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, **FINDS THAT NO TWO OF THEM ARE IDENTICAL**, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, **IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION**, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-): the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

WHOLESALE AGENTS—

**BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.**



Size 6.—In Working Position.

# WERNER & PFLEIDERER'S KNEADING, MIXING, & SIFTING MACHINES.

FIG. 358

All the latest machines and appliances for  
the pill-room.

## THE "UNIVERSAL"

### KNEADING & MIXING MACHINE.

The best machine in existence for Kneading and Mixing every  
description of Pill Mass, Horse Balls, Tooth Paster, Ointments,  
Soaps, Plasters, Lozenges, Powders, &c., &c.

The greatest labour and time saving Machine yet intro-  
duced to the Chemical trade, and now used by most of the  
Chemists in this Country and Abroad.

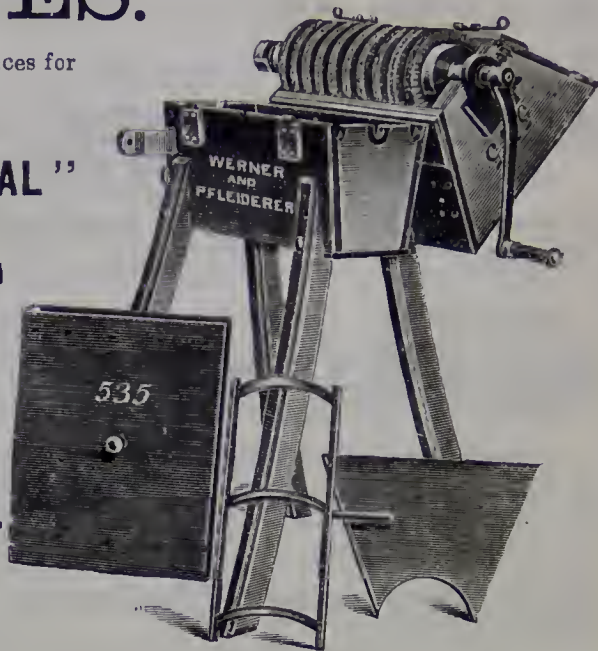
### THE "SPIRAL BRUSH" SIFTING MACHINE.

The Best, Cheapest, Cleanest, and Simplest. No complicated parts.

Interchangeable sieves. One Machine may have a number of spare  
sieves fitted with meshes of any degree of fineness.

## WERNER & PFLEIDERER,

86 UPPER GROUND STREET, BLACKFRIARS BRIDGE, LONDON, S.E.



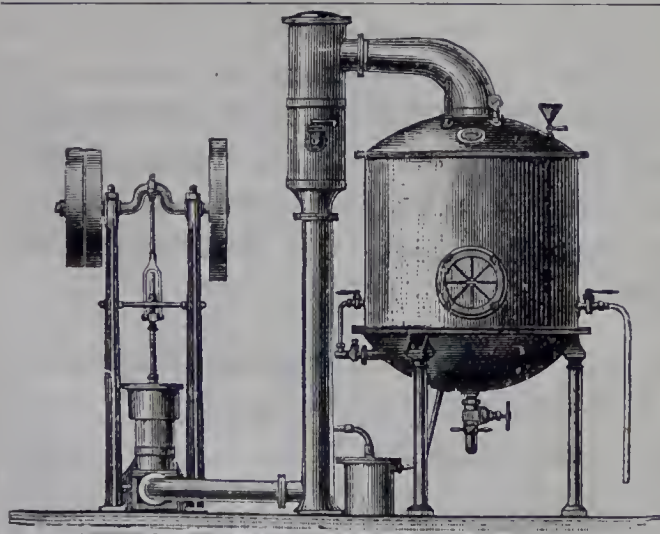
SHEWING FRAME WITHOUT MESH.

Sze 1.—Sifter, Showing Method of Changing Sieves.

## JAS. SHEARS & SONS,

Engineers, Coppersmiths, and Millwrights,  
SPECIALISTS IN CHEMICAL PLANT.

Laboratories Designed and Fitted Completely.



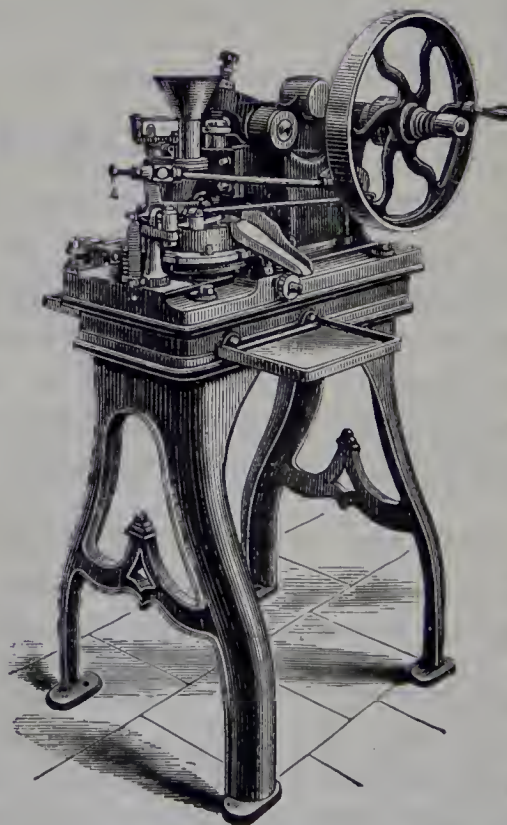
STEAM ENGINES,  
STEAM BOILERS,  
STEAM PUMPS,  
SHAFTING AND GEARING,  
MILLS (VARIOUS),  
EDGE RUNNERS,  
DISINTEGRATORS,  
HYDRAULIC PRESSES,  
STIRRERS,  
COPPER STEAM PANS,  
PEWTER STEAM PANS,  
TILTING STEAM PANS,  
STEAM DRYING TABLES,  
VACUUM PANS,  
VACUUM PUMPS,

ACETIC ACID STILLs,  
ALCOHOL STILLs,  
ALMOND OIL STILLs,  
AMMONIA STILLs,  
AQ. DISTIL APPARATUS,  
CLOVE OIL STILLs,  
CARRAWAY OIL STILLs,  
LAVENDER STILLs,  
MINT STILLs,  
NITRE STILLs,  
PORTABLE STILLs,  
SAL VOLATILE STILLs,  
SANDAL OIL STILLs,  
VACUUM STILLs,  
VACUUM FILTERS,

NEW MULTIPLE EFFECT TRANSIT FILM EVAPORATING APPARATUS.

BANKSIDE, LONDON, S.E. "SHEARS SONS & CO. LONDON."

Telegrams:—



Sole Licensees for Manufacture and Sale of McFerran's Improved  
Automatic Machinery for Making

## COMPRESSED TABLETS

Of various shapes and sizes, from 1 gr. upwards.  
Experts sent to fix and start Machines. Write for particulars and prices.  
CAPSULES FOR MOULD MAKING. Machines Manufactured to Contract for Inventors & Merchants.

## JOHN HOLROYD & CO., LTD.

Engineers, Tool Makers, and Machinists,  
TOMLINSON STREET WORKS,

HULME, MANCHESTER.



# PRICES, SIZES, and CAPACITIES OF GARDNER'S PATENT COMBINED

## "RAPID" SIFTER & MIXER,

Which is the Best Machine in the world for simultaneously Reducing, Sifting, and Mixing Dry and Lumpy Powders.

### STANDARD PATTERN.

Reference Letter	Capacity to do at one Mixing	Size on Floor, about		Height to top of Hopper, about		PRICE	Price of extra sieves, each covered with plated wire of any No. up to 30 Mesh to the inch	Price of Pair of Fast and Loose Pulleys, with collar	Weight of Machine in lbs. (exclusive of jacking case) about	Packing Crates. Two-thirds allowed when returned in good condition. Carriage paid	Extra strong cases for shipment	
		Length including Agitator Shaft	Width								Price	Measure in cubic feet about
A	15 lbs.	ft. 2 in. 0	ft. 1 in. 2	ft. 2 in. 5		£ 8	5/3	12/	94	3/	10/6	9½
B	30 "	2 0	1 10	3 3		11	8/	12/	112	4/6	12/6	15
C	60 "	3 8	2 4	5 0		17	11/6	22/	226	6/	15/	31
D	100 "	5 0	2 4	5 0		21	15/6	22/	303	8/	17/6	41½
E	150 "	5 0	2 5	5 2		23	17/	34/	400	10/6	21/	47¾
F	200 "	5 0	2 6	5 4		27	19/6	34/	454	12/6	24/	55¾
G	300 "	6 9	2 6	5 4		35	23/	40/	700	15/	27/	74½
H	500 "	...	Particulars and Price on application					...	...	...	...	...

The time taken to do the stated capacity of either size Machine is from 4 minutes, according to material and No. of Sieve used. It will thus be seen that the **G** Machine will sift and mix about **16 Tons** in a day of 10 hours. In the same time the **H** Machine will sift and mix about **26 Tons**.

QUOTATIONS FOR EITHER SIFTERS OR MIXERS SEPARATELY CAN BE HAD ON APPLICATION.

If Sieves are required finer than No. 30, a slight extra charge will be made to cover cost of Wire.

IN ORDERING, STATE No. OF WIRE REQUIRED FOR SIEVE, & PURPOSE MACHINE WILL BE USED FOR.

A, B, and C for Hand; D and E for Hand or Power; F, G, and H for Power only. Pulleys extra.

It will be seen by referring to the Table giving weights that my "**RAPID**" SIFTERS and MIXERS ARE NOT TOYS, but strong, serviceable Machines, and will stand considerable wear and tear.

**THE CABINET PATTERN,** although cheaper, has the same capacity and internal mechanism as the A and B Standard Pattern, and will reduce Lumpy Powders and Sift and Mix quite as well and as fast.



SPECIALLY ADAPTED for COUNTER USE

### PRICES:

Reference Letter, A, to do at one mixing 15 lbs. ... .. £6  
Reference Letter, B, to do at one mixing 30 lbs. ... .. £8

The Sieves being interchangeable, any number can be supplied with either pattern machine at price given.

TESTIMONIALS, AND ALL FURTHER PARTICULARS, MAY BE OBTAINED FROM  
**WM. GARDNER,** Patentee and Manufacturer, **SOUTHGATE ST., GLOUCESTER.**

REGISTERED TELEGRAPHIC ADDRESS: "GARDNER GLOUCESTER."

# GEORGE MASON & CO.'S ESSENCE OF BEEF FOR INVALIDS

MASON'S ESSENCE OF BEEF consists solely of the juice of the finest British Beef, without the slightest addition of any other added matter whatsoever. It is therefore absolutely pure. In all cases of loss of blood or extreme debility, Mason's Essence of Beef not only exhilarates the brain, but gives tone and strength to the whole system. In cases of vomiting, whether through pregnancy or otherwise, it is retained by the stomach when other food is rejected.

Hospital for Consumption,  
BROMPTON.

ORDER NO. 1090.

Please supply 120 tins  
MASON'S ESSENCE  
OF BEEF as before.



TRADE MARK.

ST. MARY'S HOSPITAL.  
PADDINGTON.

ORDER NO. 992.

Please send at once  
3 gross MASON'S  
ESSENCE OF BEEF  
as last supplied.

## MASON'S "O. K." BOUILLON

The "O. K." BOUILLON is made in England from British Beef, and contains the Fibrine and Albumen in their most perfect form. It is without doubt the best and cheapest Beef Tea that has ever been put before the public, and its nutritive and stimulating value is at least 100 times greater than any of the foreign-made extracts that are sold in this country. Mr. George Weddell, of the eminent firm of Mawson, Swan & Weddell, Grainger Street, Newcastle-on-Tyne, sends us the following unsolicited testimonial:—

30/10/90.

GENTLEMEN,—I have used your "O. K." Bouillon for nearly three years, and have found it an excellent restorative. During a long illness in my family, and again in the debility following influenza, we used it largely, and every cup seemed to improve the spirits and general condition. I shall always have pleasure in recommending it.

Faithfully yours,

GEORGE WEDDELL.

There is not a day passes without our receiving letters similar to the above. The trade should bring this splendid Beef Tea to the notice of their customers.

## CONCENTRATED BEEF TEA, MEAT LOZENGES MASON'S MALTED FOOD FOR INFANTS.

The above preparation contains the nitrogenous elements of farinaceous food. It is in a semi-digested condition, and in a state readily assimilated by the Infantile organs.

## MASON'S "O.K." SAUCE

A delicious Condiment.

PRICE LISTS, OPINIONS OF THE PRESS POST FREE.

417 & 419 KING'S ROAD, CHELSEA, LONDON, S.W.

# PETER TYRER'S

## MENTHOL

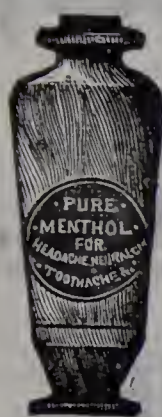
GOOD  
VALUEGOOD  
VALUE

FIG. A.

COMPARE



FIG. B.

WITH OTHERS



REVERSIBLE.



5/6

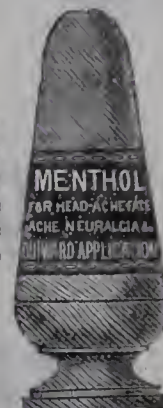
BOTTLE.

FOR BEST



VASE.

VALUE.



PEDESTAL.

**TYRER'S SPECIAL 1d. BOTTLE at 5/6.**

**1d.** { Assorted Bottle, Pedestal, and Reversible or Vase. } **6/-** per gross. | **2d.** { Fig. A., Stained, and Fig. B., Varnished } **12/-** per gross.

1d. and 2d. on  $\frac{1}{4}$ -gross beautiful Show Cards, WITH ELASTIC.

**3d.** { Fig. C., Barrel, Polished Willow ..... **16/-** per gross.  
Fig. F., Draughtsman, Stained and Varnished ..... **16/-** " }



FIG. C.



FIG. D.



FIG. E.

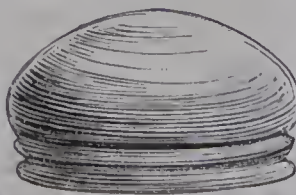


FIG. F.



FIG. G.



FIG. H.

Fig. D.—Small Glass Dome, Boxwood foot, 1/9 per doz.

" D. Medium " " Enamelled " 2/6 "  
" D.—Large " " Boxwood " 4/- "  
" E.—Splendid value, Boxwood Screw.. 3/- "

Fig. F.—Draughtsman, Boxwood Screw .. 2/9 per doz.

" G.—Acorn, medium, " " 2/10 "  
" G.— " large, " " 5/3 "  
" H.—Barrel, extra large, " " 5/6 "

Other shapes and sizes quoted for, and I guarantee to give the very best value that money can procure.

**PETER TYRER, LONG LANE, BOROUGH, LONDON, ENGLAND.**

# **CHEMISTS' JUJUBES,**

**DELECTABLE, VOICE,  
MAGNUM-BONUM, CHLORODYNE.**

---

## **BLACK CURRANT AND GLYCERINE.**

We defy competition in these Jujubes ; they are made from the fresh fruit, and have a flavour which is unapproachable by artificial means. No other Black Currant Jujubes are comparable with these, either in flavour or finish.

**TO SHOW THESE JUJUBES IS TO SELL THEM.**

---

**PLACE YOUR ORDERS AT ONCE, AS THE DEMAND IS ENORMOUS.**

---

## **GLYCERINE JUJUBES (Soft)**

If you have not yet stocked Kerfoot's Soft Glycerine Pastilles you would greatly increase your sale by doing so.

**FILL YOUR ORDERS AT ONCE.**

---

# **THOMAS KERFOOT,**

Manufacturer of Pharmaceutical Confectionery,  
**MANCHESTER.**

# **T. KERFOOT,**

## **MANUFACTURING PHARMACEUTICAL CHEMIST,**

MANUFACTORIES—

Albion Works, Hague Street, & Medlock Vale Works, Berry Street, MANCHESTER.

*Manufacturer, by Special Process, of every description of Superior Medicated Lozenges, Medicated Jujubes, Candies, and Boiled Sugars; also Granular Citrate of Magnesia, and all Granular Preparations.*

Our large and well-equipped Factories, furnished with the most modern engines and machinery, enable us to offer every description of MEDICATED LOZENGES and all allied preparations of unquestionable quality and at a reasonable price.

## **MEDICATED LOZENGES,**

containing ingredients easily volatilised, or otherwise liable to injury by heat, are specially treated so as to retain as fully as possible their active properties. As a specimen of the success of our method in the treatment of ingredients of this character note

## **KERFOOT'S CHLORODYNE LOZENGES.**

These are the best and strongest Lozenges manufactured, their sale being very large and increasing. We stamp Chemists' own names upon these and all other Lozenges in quantities of 7 lbs. and upwards. Also

## **Linseed, Licorice & Chlorodyne Lozenges,**

the most popular and saleable as well as the most pleasant and effective Winter Lozenge ever introduced. The fact of our sale of the above Lozenges during the past winter having exceeded by several tons that of any former year sufficiently demonstrates their popular character. Chemists are invited to send their orders for the above Lozenges early, as the demand in the winter months often overtakes our output.

## **SPECIAL COUGH LOZENGES.**

The "Special Cough Lozenges," introduced in the winter of 1882, have had a remarkable sale; they have a peculiar and distinctive flavour and colour, and are free from all opiates. They contain Verbascum Thapsus, Squill, Ipecac, Tolu, Benzoic Acid, &c., and are an agreeable and efficient Cough Lozenge. They may be given with equal safety to children and adults. The Special Cough Lozenges can be stamped with customer's own name in quantities of 7 lbs. and upwards. Price 1s. 6d. per lb.

## **ENGLISH BRONCHIAL LOZENGES.**

These are superior both in flavour and efficacy to the American lozenges, and always amply repay the trouble of introduction. Although they contain NO OPIATE they are an efficient Cough Lozenge, and for the use of Singers they are unique.

**DIGESTIVE CANDY.**—This article is now prepared in two colours—yellow and dark red. It contains Rhubarb, Ginger, Cardamoms, &c., and is an excellent and pleasant stomachic. Price 1s. 4d. per lb.

**HEARTBURN CANDY.**—Composed of Bismuth and Magnesia; very pleasant. 2s. per lb.

An endless variety of Highly-finished Medicated Lozenges and Jujubes of every description.  
Price Lists free on application.



# CLARKE'S PYRAMID & FAIRY LIGHT CO.

## LONDON, N.W.

Showroom—31 ELY PLACE, E.C. Colonial Depot—484 COLLINS STREET, MELBOURNE.

LIST of PATENTS, REGISTERED DESIGNS, and TRADE MARKS granted to SAMUEL CLARKE, now the Property of the above Company:—

### S. CLARKE'S PATENTS.

COUNTRY	No.	DATE	IMPROVEMENTS
England	—	—	Manufacture of candles
Do.	—	—	Lamps
Do.	—	—	Lanterns for affording light and for cooking
Do.	—	—	Manufacture of candles and night-lights
Do.	—	—	Apparatus for burning night-lights or mortars
Do.	—	—	Wicks for candles and night-lights
Do.	—	—	Manufacture of candles
Do.	—	—	Candlesticks
Do.	—	—	Night-lights
Do.	5877	Dec. 27, 1883	Do.
U. States	298448	May 13, 1884	Founded on the above English patent
France	162075	Do.	Do.
Canada	23550	Mar. 6, 1886	Do.
England	3683	Mar. 21, 1885	Manufacture of night-lights
U. States	329539	Nov. 3, 1885	Founded on the above English patent
England	3684	Mar. 21, 1885	An infant's food-warmer or night-light apparatus
U. States	334747	Jan. 26, 1886	Founded on the above English patent
England	5846	May 4, 1885	Candles especially applicable for burning under glass or shades
U. States	343567	June 15, 1885	Founded on the above English patent
England	11353	Sept. 23, 1885	Candle-lamps and chandeliers
France	172717	Dec. 4, 1885	Founded on the above English patent
Germany	36679	Dec. 5, 1885	Do.
Austria	36795	May 3, 1886	Do.
Belgium	71120	Dec. 15, 1885	Do.
U. States	32296	Dec. 14, 1885	Do.
England	14080	Oct. 17, 1887	Menu-holders
Victoria	—	—	Patent applied for. Founded on the above English patent
N. S. Wales	—	—	Do.
U. States	—	—	Do.
England	15254	Nov. 8, 1887	Glass and porcelain lamps
Gt. Britain	14080	Oct. 17, 1887	Menu-holders
Do.	15254	Nov. 8, 1887	Glass and porcelain lamps
France	188500	Feb. 2, 1888	Do. Founded on above two English patents
N. S. Wales	493	Feb. 10, 1888	Do.
Victoria	5612	Feb. 8, 1888	Do.
U. States	383862	June 5, 1888	Do.
Gt. Britain	4366	Mar. 21, 1888	Candle-holders
Do.	16273	Nov. 9, 1888	Adjustable bed-trays
Do.	10340	June 25, 1889	Night-lights
Do.	6138	April 22, 1890	Lamp-shades. Complete, not yet filed
Do.	19067	Nov. 24, 1890	Night-lights
U. States	399741	Mar. 19, 1889	Cups for food-warmer
Do.	403327	May 14, 1889	Lamp-holders
France	—	—	Lamps

\* Patent of addition, 172717.

† Lodged June 30, 1887.

### S. CLARKE'S TRADE MARKS.

COUNTRY	DATE	CLASS	No.	DESCRIPTION
Gt. Britain	Jan. 18, 1876	13	1012	Design night-lamps and food-warmer
Do.	—	47	1012	Design night-lights
Do.	Sept. 14, 1880	47	22935	Pyramid night-lights
Do.	Sept. 17, 1883	13	33562	Pyramid food-warmer, lamps, &c.
U. States	June 17, 1884	—	11627	Pyramid
Gt. Britain	Jan. 14, 1884	47	34956	Burglars' horror night-lights
Do.	Mar. 20, 1884	15	36286	Do. glasses for lamps and night-lights
Do.	Do.	16	36287	Do. porcelain stands for lamps, &c.
U. States	Dec. 30, 1884	—	11827	Burglars' horror
Gt. Britain	April 21, 1885	13	44537	Fairy lamps
Do.	Do.	47	44538	Do. canoes
Do.	June 19, 1885	15	45771	Do. glass
Do.	Do.	16	45772	Do. porcelain

### S. CLARKE'S TRADE MARKS—continued.

COUNTRY	DATE	CLASS	No.	DESCRIPTION
Austria	Feb. 9, 1886	—	4411	Fairy (label)
Belgium	Dec. 16, 1885	—	2111	Fairy
Canada	April 2, 1886	—	2664	Do.
France	Dec. 19, 1885	—	3673	Do.
Germany	Feb. 10, 1886	—	3672	Do. (label)
Do.	Feb. 20, 1886	—	3894	Fairy
Hungary	Feb. 10, 1886	—	—	Do. (label)
Russia	Oct. 27, 1886	—	9196	Fairy
Spain	Mar. 7, 1887	—	bk 1, 172	Do.
U. States	Jan. 19, 1886	—	13031	Do.
Victoria	Nov. 10, 1886	—	1396	Do.
N. S. Wales	Nov. 30, 1886	—	1717	Do.
Queensland	Oct. 15, 1886	—	197	Do.
S. Australia	Dec. 3, 1887	—	—	Do.
W. Australia	Jan. 1, 1887	—	—	Do. candles, &c.
Do.	Do.	—	—	Do. lamps
Tasmania	Nov. 30, 1887	—	415	Do.
New Zealand	Jan. 31, 1887	—	—	Do.
Gt. Britain	Aug. 10, 1885	13	46770	Design metal lamps
Do.	Do.	47	46773	Do. candles, &c.
Do.	Dec. 1, 1886	13	59523	Do. lamps
Do.	Jan. 20, 1887	13	61200	Fairy pyramid lamps
Do.	Do.	15	61201	Do. glass
Do.	Do.	16	61202	Do. porcelain
Do.	Do.	47	61203	Do. candles, &c.
Do.	Oct. 10, 1887	13	68345	Wee-Fairy
Do.	Do.	15	68346	Do.
Do.	Do.	16	68347	Do.
Do.	Do.	47	68348	Do.
Do.	June 25, 1889	47	91117	Cricklite
N. S. Wales	—	47	—	Pyramid
New Zealand	—	47	—	Do.
Queensland	—	47	—	Do.
Tasmania	—	47	—	Do.
S. Australia	—	47	—	Do.
Victoria	—	47	—	Do.
W. Australia	—	47	—	Do.

### S. CLARKE'S REGISTRATIONS

COUNTRY	DATE	CLASS	No.	DESCRIPTION
Gt. Britain	June 22, 1886	—	—	Design lamp-holder
U. States	June 30, 1886	—	—	Do. do.
Gt. Britain	Nov. 1, 1887	—	—	Do. Fairy lamp
Do.	Dec. 29, 1887	—	—	Do. do.
Do.	Applied for	—	—	Do. Cup
Do.	Jan. 11, 1888	—	—	Food-warmer
Do.	Jan. 11, 1888	4	91241	Fairy lamp
Do.	Feb. 11, 1888	4	93320-7	Do.
Do.	Feb. 22, 1888	1	94176	Do.
Do.	Mar. 5, 1888	3	95113	Lamp
Do.	Do.	4	95114	Do.
Do.	Do.	1	95261	Night-light
Do.	Mar. 9, 1888	1	95480	Lamp-stand
Do.	Do.	3	95481	Do.
Do.	Do.	4	95482	Do.
Do.	May 9, 1888	4	99928-39	Lamps
Do.	Aug. 13, 1888	4	105558	Lamp-stand
Do.	Oct. 22, 1888	1	112255	Food-warmer stand
Do.	Nov. 15, 1888	4	113915-6-7	Table-lamps
Do.	Nov. 12, 1889	1	137929	Lamp
Do.	Mar. 12, 1890	4	145668	Do.
Do.	Mar. 26, 1890	1	146672-3	Lamp-stands
Do.	Mar. 28, 1890	4	146738	Lamp-shade
Do.	April 3, 1890	4	147123	Do.
Do.	April 16, 1890	4	147747	Do.
Do.	Sept. 20, 1890	1	157163	Night light stand
Do.	Do.	4	157164	Do.
Do.	Oct. 6, 1890	4	158336	Night-light holder
France	—	—	5736	Roman lamp
Do.	—	—	5737	Frame lamp
Do.	—	—	5738	Food-warmer
U. States	June 12, 1888	—	18378	Roman lamp

Foreign Manufacturers are cautioned against infringing any of the above PATENTS, REGISTRATIONS, or TRADE MARKS. A reward of £50 will be given for information that shall lead to the conviction of any person infringing any of the above rights.

**"LOOK at this, and look at that,  
And say you think I'm not amiss."**



But just now we wish to "look at" something else, namely, the fact that we are supplying Chemists with the finest assortment of useful, attractive, original, and convincing illustrated Counter Wrappers of any house in the trade. These consist of 62 different designs—size 4-oz., 6-oz., and 8-oz.—printed on one side only, with wide margins. The paper is clear, white, and strong. In short, these are Counter Wrappers which dealers will use and send for a second supply. Owing to the large assortment we cannot undertake to print dealers' cards on same.

**Our Illuminated Show-cards, Panel Transparencies, Picture-cards, &c., &c.,** are acknowledged by dealers to be the correct thing—novel, useful, and attractive; none more so. They are produced in the highest style of art, and not only largely increase the dealers' sales of ST. JACOBS OIL, but are an attraction to even the best-fitted shops.

**"A**



**SOUVENIR,"** is the title of the English edition of our new book (one million issue) for general distribution. It is printed on good paper, with enamel cover, size  $8\frac{1}{2}$  by  $5\frac{1}{2}$  inches; 48 pages; highly illustrated. The contents consist, in part, of a description (illustrated) of the interior of our London House, showing the entire working of this great establishment. Comic illustrations abound, hits on general topics, and, in fact, up to date in everything, forming the finest and most costly book for general distribution ever put into the hands of dealers. This book, when judiciously distributed, adds largely to the sales of ST. JACOBS OIL; besides, it is a book every word of which is clean and suitable for each member of a family to read. Chemists everywhere who have been fortunate enough to receive a supply of "A Souvenir"

will speak of it in the highest terms of praise, and want more.



HOW TO COOK FISH" is highly illustrated, 64 pages, same size as "A SOUVENIR," beautifully printed on heavy calendered paper, price 3d., meets with a ready sale. Supplied to the Trade, with Dealer's Name and Address printed on (if desired), at 8s. per 100.

This Book contains original Receipts for Cooking Fish, personally gathered by myself in and around a little fishing village on the Narraganset Bay, U.S.A., where the people have not only a national but a world-wide reputation for preparing, cooking, and serving all kinds of fish in a manner *par excellence*.

Although we have but recently published this Book, the sales to Chemists have been very large. Many of them have sent us repeat orders, and expressed to us the high opinion in which it is held by their customers.



JACOBS OIL PRICE LIST (REVISED) places the dealer who orders Six Dozen at one time on exceptional terms; every dealer should send to us for same. FOREIGN BUYERS will be furnished with special bonded Price List on application to us.

We undertake to supply all Dealers with an assortment of the above advertising matter, with Name and Address printed on the Books *only*, who will use same to our mutual advantage. Carriage will be prepaid by us in GREAT BRITAIN. If, however, Dealers have contracts with London Carriers, or desire to have packages sent to a London House for enclosure, we should be glad of such information with order.

Foreign Dealers should name their London Agents, to whom we will deliver the above advertising matter ready packed for Shipment.

P.P. THE CHARLES A. VOGELER COMPANY,

WILLIAM E. GEDDES, General European Manager,

45 Farringdon Road, London.

## THE VERDICT.

**Kepler Malt Extract**, made from barley, contains

In his "Chemistry," Vol. I., Muspratt says:—"Any of the cereals may be employed in the preparation of malt, but barley is preferred for this purpose."

all the choice restorative principles of this grain, which authorities agree is unequalled for the excellence and abundance of its carbo-hydrates, diastase, &c.

**Albuminous Malts.**—In manufacturing a malt extract of one part barley and three parts wheat, oats, rye, Indian corn, &c., three quarters of the nutrient constituents of the best possible of malt extracts is sacrificed for the sake of a little extra vegetable albumen, hardly equal to a sip of beef-tea.

In Miller's "Chemistry" we read:—"Other grains, such as wheat, oats, rye, and even Indian corn, may be malted, but experience has shown that barley is the grain best adapted to the process."

**Carbo-hydrates.**—It should be noted, that in preparing malt extract, the design is not to make *vegetable beef-tea*, but rather to extract those proximate principles, for which alone mankind depends exclusively upon the vegetable kingdom. In its abundance of these principles, barley stands unequalled, and for this reason is the Kepler Malt Extract made from barley only.

In making Malt Extract it is very clear that if any other cereal is substituted for barley, to that extent is the extract of something inferior for the purpose to barley.

**Diastase.**—"In the manufacture of malt, those grains only are used in which, during germination, diastase is developed, and among them *barley takes the first rank*" (BERSCH).  
"In malted barley," writes Sir Wm. Roberts, "we have at command an unlimited supply of diastatic power."

**Alcoholic Malt Extract.**—"The Extract of Malt," writes Lersch, "the absence of alcohol and carbonic acid is to be observed. In beer there is only about one-fifteenth extract."

"The Kepler Extract is free from alcohol, while it contains all the nutrient constituents of the malt in a soluble form" (Dr. Edmunds).

**Cheap Malt Extracts.**—These are the dearest of all in the end. The dose, for example, of a malt extract which costs 1s. per bottle, is double that of the Kepler, and the quantity in each bottle less than half.

"The Kepler Malt Extract is the most palatable and easily digested."  
—*Medical Press and Circular.*

Kepler Malt Extract and Kepler Solution supplied to the trade in  $\frac{3}{4}$  and  $1\frac{1}{2}$  lb. bottles at 20s. and 36s. per doz. Retail prices 2s. 6d. and 4s. each.

Prices Subject to Usual Discount. Supplied by all Wholesale Houses throughout the World.

**BURROUGHS, WELLCOME & CO.,** Snow Hill Buildings, LONDON, E.C.

# Progressive Pharmacy.

LONDON]

JANUARY 31

[1891



BURROUGHS, WELLCOME & CO.'S GENERAL OFFICES (SEVEN FLOORS),  
SNOW HILL BUILDINGS, LONDON, E.C.

## Triumphs.

NOTWITHSTANDING the disastrous fire which destroyed our works at Wandsworth, and completely stopped our manufacturing departments for two months, and interrupted our shipments for half a year, and notwithstanding the heavy direct and indirect monetary losses this fire imposed upon us, the past year sums up as one of unprecedented success in the advance and development of our business. Not only has our business increased enormously in volume, but we have also won many rare additional laurels in the recognition and endorsement of our products by the world's great authorities.

Like vultures hovering about an army on the day of battle the "trade pirates" thought they scented a feast in the air when we had to encounter the "Fire Fiend." Many chemists have suggested that these pirates exhibited somewhat indecent haste in availing themselves of our misfortunes as a "rare opportunity" to foist their imitations as substitutes for our products. We believe, however, that such attempts were almost invariably resented by respectable chemists. In some few cases, when we could not supply our goods soon

enough to meet demands, substitutes were accepted, but, as is usually the case, the pirates, in their haste to get gain from another's toil and expenditure, neglected to copy the purity and perfection of our manufactures, and by contrast brought upon themselves the contempt and ridicule of the trade.

If these men who live on stolen fruit can afford it, perhaps we ought to be content, for we have the satisfaction of knowing that the attempts thus far have invariably in the end redounded to our benefit; but we owe it to the profession and trade that we should protect them against impositions.

An unfortunate experience was narrated to us a few days since by a well-known traveller, who says that, through the intercession of a personal friend, he was persuaded to allow his medicine-case to be filled with imitations of our "TABLOIDS" of compressed drugs, the maker claiming that they were not only "just as good," but that the imitations were a wonderful improvement over the *original* and *genuine* "TABLOIDS." This improvement, it was alleged, consisted of a remarkable discovery—a secret substance which, when mixed with the drug, would cause it to disintegrate quicker than the genuine "TABLOIDS"—but the main inducement held out was that the imitations were "*cheaper*" and "*just as good*." Relying upon these plausible assurances, the traveller consented to the substitution, though he had for years used our "TABLOIDS" with the fullest satisfaction as to purity, solubility, activity, and permanence.

Starting on a journey with these imitations, imagine the traveller's disgust when, at the end of the first fortnight, he found the drugs were no longer in the form of compact lenticular discs: the work of *disintegration* had been *accomplished*, and for the remainder of his journey he had but this filthy crumbled mass of drugs, with no means of measuring the doses. Needless to say, the traveller speaks with indignation of this imposition, and he will not again be misled into taking *any* imitations of the genuine "TABLOIDS" of Compressed Drugs. We need hardly suggest how unfair it is to supply inferior medicines to a traveller who goes to countries beyond the reach of medical stores, and where, if his medicine-chest fails, he is helpless.



BURROUGHS, WELLCOME & CO.'S SNOW HILL LABORATORIES, DARTFORD, KENT, ENGLAND.

Dr. J. A. Marston, Deputy Surgeon-General, in his official report on the recent International Medical Congress, says:—

"These 'Tabloids' are not more expensive than the ordinary forms of administering medicines, as they can be made at a very small advance on the crude drug.

"They keep well in all climates and are unaffected by heat or moisture. Specimens were examined which had been round the world in s.s. *Ceylon*. Mr. H. M. Stanley, in his work, 'The Congo,' vol. ii., pages 325 and 327, refers to their value."

It is well known to the profession that the prime secret of our success has been quality and accuracy; our imitators in their haste for lucre forget this feature, and rely upon misleading our supporters by substituting inferior products and clumsily copying appearance. These imitators also overlook the fact that the world is getting wise, and distrusts those who pirate their neighbours' goods; the wise prefer the genuine and pure.

The pirate never imitates worthless goods, but seeks out those with fairest fame, and we may take it as an established fact that the fame of an article may be judged by the number of piracies that follow it.

## The Year's Progress.

So, handicapped by the destruction of our old works, and the labour involved in fitting up the new ones, we have had little time to bring out new drugs, but have devoted ourselves mainly to improving and perfecting our old products. Our "Tabloids" of Compressed Drugs have come into such extensive use by physicians throughout the world that this department has received our most especial attention, though—as evidenced by the testimony of H. M. Stanley, Surgeon Parke, and others—these "Tabloids" already stood unique in point of perfection. They retained their efficacy throughout the Emin Relief Expedition; they quickly dissolved or disintegrated when administered, and by their portability enabled Mr. Stanley to carry abundant supplies.

Notwithstanding these evidences of merit, we always hold the view that nothing is good enough if it can be improved, and we have certainly made still further improvements in these products. No one unfamiliar with the details of the rise and progress of our manufacturing department will ever know or understand the immense amount of anxious care, thought, trouble, and expenditure involved in the development and perfecting of these beautiful products. Our products are characterised by their beauty and perfection, and this is not accidental. Purity, accuracy, and attractiveness are all essential features of our "Tabloids." Where other firms would spend hours and shillings on experimentation, we have spent months and thousands of pounds. Every day with us marks a step in advance. So it has been, is, and ever shall be. Every drug is carefully studied and compressed with due regard to its nature and its purpose. To quote the paragraph which we have so frequently used on our labels and in our circulars and advertisements for years:

"The drugs are compressed in 'Tabloids,' 'hard and soft,' due regard being paid to the purpose for which they are to be used. Those designed for dissolving in the mouth, like Chlorate of Potash, Chlorate of Potash and Borax, and Voice 'Tabloids,' are made very hard; while those destined for internal administration are less dense, and *quickly disintegrate*. Some of the more lightly compressed 'Tabloids' of *soluble drugs* dissolve with the greatest readiness; for example, the soluble Quinine 'Tabloids' dissolve almost as quickly as they touch water."

Year by year there is an increasing appreciation of everything that tends to definiteness of dosage and convenience and palatability in the administration of medicines.

It is generally admitted that this new movement is largely due to our earnest efforts. The important improvements we have introduced to the profession and trade have not only successfully stood the crucial tests of opponents, sceptics, and independent investigators, but have also convinced all

who are open to rational conviction that our plan is the correct one.

Intelligent physicians and chemists throughout the world have welcomed our improvements, and are offering us every encouragement to continue this progressive work. Successful practitioners now recognise the well-established facts that in the scientific practice of medicine absolute accuracy of dose is of the greatest importance, and that the influence of the mind over the body is such that whims and fastidiousness of patients in respect to nauseous and offensive medicines cannot consistently be ignored. It is well known that patients often deceive their doctors by secretly destroying or throwing away medicines that offend the taste or are repulsive in appearance, and this even in cases where the successful action or the failure of the remedy is perhaps a matter of life or death; as a natural result, if a patient dies or derives no benefit, the doctor or the drug, or both, bear the blame.

The "Tabloids" of compressed drugs, in accurately divided doses, greatly lessen the risk of error by nurses and patients, and afford an unchangeable and acceptable form for administration; and at the same time these medicines are so compact and portable that patients travelling or attending to business, professional, or official duties can easily carry the remedies prescribed in the waistcoat pocket.

In ordering "Tabloids" the greatest care should be exercised to prevent substitution; and, in fact, when any of our goods are ordered it is best to specify "B. W. & Co."

In all departments we have made improvements, especially in those of Kepler Extract of Malt and Kepler Solution of Cod-liver Oil. Our new vacuum apparatus, built to our design, is unique in its practical and scientific improvements, and enables us to raise to a still higher standard the valuable qualities of the Kepler products.

## Crucial Tests.

The real secret of our success has been in gaining the full confidence of the profession by absolute purity and reliability of every product we issue, and then in placing these pure products before them in the most active, pleasing, and acceptable forms. Our earnest efforts in perfecting our PURE PALATABLE and PORTABLE products have brought us liberal reward, and we have no doubt just as rich reward may be gained by others who will try by original work and real merit to win confidence instead of branding themselves as pirates by resorting to questionable practices.

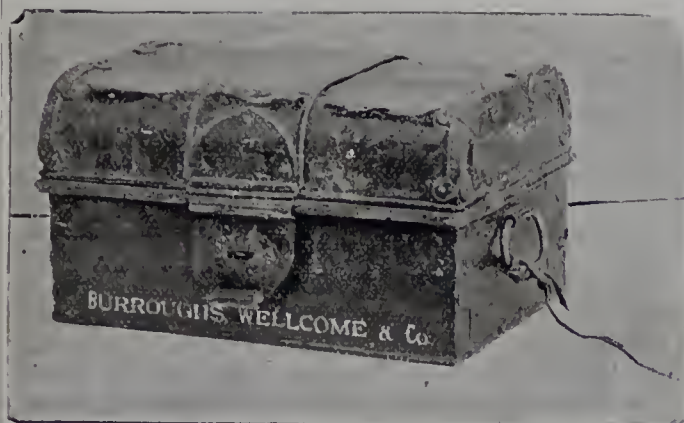
Among the vast number of important tributes paid us during the past year none are more prized than those of H. M. Stanley and Surgeon Parke. Stanley's Emin Relief Expedition was equipped entirely with medicines manufactured by us, and during the three years of terrible ordeal of disease and violence the lives of the members, both white and black, often depended upon the purity and activity of our products, while but for the extreme portability it would have been impossible to carry sufficient quantities of the drugs to last to the end of the long journey, and ordinary drugs would have perished in those torrid and humid climes before the end of the first year. In his "Darkest Africa" Mr. Stanley says:—

Messrs. Burroughs, Wellcome & Co., of Snow Hill Buildings, London, E.C., the well-known chemists, furnished nine beautiful chests replete with every medicament necessary to combat endemic disease peculiar to Africa. Every drug was in "TABLOIDS" mixed with quick solvents, every compartment was well stocked with essentials for the Doctor and Surgeon. Nothing was omitted, and we all owe a deep debt of gratitude to these gentlemen, not only for the intrinsic value of these chests and excellent medicines, but also for the personal selection of the best that London could furnish, and the supervision of the packing, by which means we were enabled to transport them to Yambuya without damage. \* \* \* Surgeon Parke has personally informed us that the concentrated preparations and "TABLOIDS" retained their efficiency throughout the whole journey, and were of the utmost value by reason of their efficiency and portability.—*British Medical Journal*.

Mr. Thos. Stevens, the well-known journalist who circled the globe on a bicycle, more recently made the great horse-back ride through Russia, and who was first to greet Stanley

as he approached the east coast of Africa on his return to civilisation, was greatly impressed by the extreme portability of our "Tabloids," which enabled his own flying expedition to carry abundant supplies of medicines in small compass through his journeys for a year in Masai-land and German East African Territory. In his last book, "Scouting for Stanley in East Africa," he says:—

Burroughs, Wellcome & Co., of Snow Hill Buildings, London, had fitted out the expedition with chests of their excellent "TABLOIDS." These were *always immediately effective* in breaking up the fever, as well as in curing the many ailments of the men. One cannot speak too highly of the medicines put up in the compact form of "Tabloids" by this firm. Their extreme portability is not the least of their recommendations to the African traveller. Stanley, in recommending these medicines in his "Congo and the Founding of its Free State," has earned the gratitude of every man who goes to a tropical country. Their Saccharin Tabloids are especially valuable, as they have 300 times the sweetening power of sugar.



ONE OF THE MEDICINE CHESTS, FILLED WITH "TABLOIDS" OF COMPRESSED DRUGS, SUPPLIED TO H. M. STANLEY BY BURROUGHS, WELLCOME & Co., AND CARRIED BY MR. STANLEY THROUGHOUT HIS EMIN RELIEF EXPEDITION, AND BROUGHT BACK AS A SOUVENIR, THE REMAINING CONTENTS UNIMPAIRED. [Photo by W. H. Kirby.]

These are certainly the most practical and the most crucial tests to which medicines have ever been subjected, in respect to purity, activity, solubility, permanence, and portability, and we feel deeply gratified not only by the demon-



ONE OF THE RAW-HIDE MEDICINE CHESTS, FILLED WITH "TABLOIDS" OF COMPRESSED DRUGS, SUPPLIED BY BURROUGHS, WELLCOME & Co. TO THOMAS STEVENS, WHO CARRIED IT THROUGHOUT HIS ONE YEAR'S EXPEDITION IN EAST AFRICA AND BROUGHT IT BACK WITH REMAINING CONTENTS UNIMPAIRED. [Photo by W. H. Kirby.]

stration of true merit, but also by the fact that our products contributed in so great a measure to the preservation of valuable lives.

### Reduction in Prices.

By the greatly increased consumption and sale of our products and by the greatly increased facilities of our new works, with the new, improved, and enlarged machinery

and apparatus, we are enabled to manufacture our various articles on a much larger scale, and purchase crude drugs in much larger quantities. This secures to us special advantages in respect to cost of material and expenditure of labour.

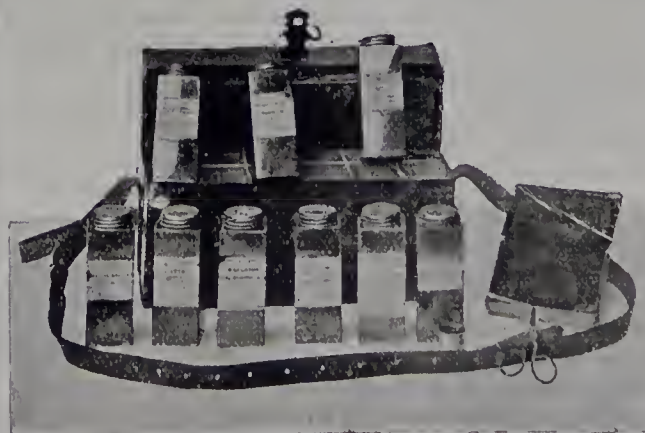
The benefit of this reduction in our cost we offer to the



ONE OF THE MEDICINE CHESTS, FILLED WITH "TABLOIDS" OF COMPRESSED DRUGS, SUPPLIED TO H. M. STANLEY BY BURROUGHS, WELLCOME & Co., AND CARRIED BY MR. STANLEY THROUGHOUT HIS EMIN RELIEF EXPEDITION, AND BROUGHT BACK AS A SOUVENIR, THE REMAINING CONTENTS UNIMPAIRED. [Photo by W. H. Kirby.]

profession and trade and consumers by proportionately reducing our selling prices. The prices of our products will always be kept as low as is consistent with the cost of the purest materials and skilled talent in manufacture and a fair and reasonable margin of profit to ourselves. We shall never try to compete in price with inferior goods which have only cheapness to recommend them. There is no excuse for supplying impure medicines when our pure products can be had at such moderate prices; they can be afforded by any patient who can pay for any medicine. Impure drugs are always the most costly in the end.

With the devoted assistance of our well-known general manager, Mr. R. C. Sudlow, who has been with us for many years, and the new manager of our works, Mr. A. Searl



ONE OF THE RAW-HIDE MEDICINE CHESTS, FILLED WITH "TABLOIDS" OF COMPRESSED DRUGS, SUPPLIED BY BURROUGHS, WELLCOME & Co. TO THOMAS STEVENS, WHO CARRIED IT THROUGHOUT HIS ONE YEAR'S EXPEDITION IN EAST AFRICA AND BROUGHT IT BACK WITH REMAINING CONTENTS UNIMPAIRED. [Photo by W. H. Kirby.]

(long associated with Messrs. Howard & Sons), and with the devoted assistance of all our employes, and the co-operation of all interested in the progress of pharmacy and medicine, we hope to make this year an abundantly fruitful one in benefits to the world and to our firm.

Very respectfully,

BURROUGHS, WELLCOME & Co.

Snow Hill Buildings, London, E.C., January, 1891.

# ADVANCES.

LONDON.]

JANUARY 31st.

[1891.]

## DIURETIN-"KNOLL."

Diuretin-"Knoll" is an easily soluble compound of Theochromine, in the form of a white powder, which, when warmed, dissolves in about half its own weight of water, no precipitation occurring on cooling. It acts as a powerful renal stimulant, and is of especial value when it is desired to promote diuresis in many cases of dropsy with cardiac complications, without influencing the heart's action. Diuretin-"Knoll" is more certain in its action, according to Doctors Schroeder and Gram, than either *digitalis* or *adonidin*. The usual dose is 15 grains. This quantity may be repeated as often as every four hours until its full diuretic action is established.

Diuretin-"Knoll" is supplied to the trade in 1-oz. and 2-oz. bottles, at 4s. 4d. per oz. For quantities of 100 oz. and upwards, 4s. 2d. per oz.

## IODIC-HYDRARG.

This new antiseptic and germicide is possessed of double the bactericidal power of corrosive sublimate, while it is less poisonous. Micrococci and bacilli in active growth without spores are soon killed by solution of 1 in 40,000. Solutions of 1 in 2,000 will rapidly destroy the spores of *bacillus anthracis* and *bacillus subtilis*. The use of Iodic-Hydrarg. is especially adapted for midwifery practice. One part in 1,500 may be safely used in obstetrical and gynaecological practice for washing out the vagina. This strength with corrosive sublimate is highly dangerous, and has in several cases caused death. Iodic-Hydrarg. is soluble in its own weight of cold water.

Iodic-Hydrarg. is supplied to the trade in 1-oz. bottles, at 15s. per dozen. Retail, 2s. each.

## HAZELINE CREAM

Is an elegant preparation, of the colour and consistency of cream, and combining the well-known anodyne and astringent principles of Hazeline with the emollient and protecting properties of "Lanoline." This preparation is considered by many medical practitioners to be superior to the ordinary cold cream as an application for *Roughness of the Skin, Chapping, Irritation, and for Weeping Surfaces*, such as we find in *Eczema*, &c.

As an application for *piles, anal fissure, prolapsus ani*, and *irritable conditions of the anal membrane*, Hazeline Cream is unsurpassed. It may be cleanly and conveniently applied with Dr. Ward Cousin's ointment-injector.

Hazeline Cream is supplied to the trade in 2-oz. bottles, at 14s. per dozen, also in 1-lb. jars at 60s. per dozen.

ABOVE PRICES SUBJECT TO USUAL DISCOUNT.

## "LANOLINE"—(TRADE-MARK).

*Called Adeps Lævis Hydrosus in the B.P. Addendum, 1890, and manufactured under control of Professor Liebreich.*

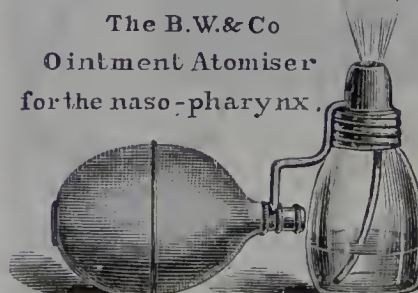
"Lanoline" is the name employed to designate the most highly-purified wool-fat in the market. It is a wool-fat in which cholesterol alcohols replace the glycerine of the ordinary bases for ointments, and which are so liable to become acid and rancid. Furthermore, "Lanoline" will absorb water and watery solutions of salts or alkaloids. These are decided advantages over the ordinary bases employed in the manufacture of ointments. Ointments made with "Lanoline," containing up to 100 per cent. of water, keep well, are free from hard crystalline bodies, and, being absolutely neutral, are free from any tendency to irritate the tissues.

The advantages of "Lanoline" may be summed up as follows:—(1) It is the only natural basis for ointments; (2) it will not turn rancid; (3) it is absolutely antiseptic; (4) it does not run like ordinary ointment bases; (5) it acts as a perfect protective dressing for excoriated surfaces; (6) it is compatible with all medicaments employed for making ointments; (7) it is devoid of any hard crystalline bodies; (8) it retards the rancidity natural to glycerine fats. "Lanoline" is acknowledged the best basis for ointments known, and is recommended by the first physicians throughout the world.

"Lanoline" is supplied to the trade in 1-lb. and 7-lb. tins, any quantity, at 2s. 8d. per lb.; Anhydrous "Lanoline," (Lanolinum Anhydricum), 3s. 4d. per lb.; "Lanoline" Ointment Base (Ung. Lanolini), 2s. 2d. per lb.; Anhydrous "Lanoline" Ointment Base (Ung. Lanolini Anhydrici), 2s. 10d. per lb.; "Lanoline" Toilet Soap, 8s. per dozen; "Lanoline" Cold Cream, 14s. per dozen; "Lanoline" Pomade, 14s. per dozen; Toilet "Lanoline," 4s. 6d. and 9s. per dozen.

## OINTMENT ATOMISER (B. W. & CO.).

This elegant little instrument is intended for use in applying a fine spray of an oily solution or of plain "Paroleine" (B. W. & Co.)—a basic paraffin oil free from odour, colour, or taste—to the naso-pharyngeal mucous membrane.



"This instrument has delighted us. No laryngologist's table will be complete without one of these beautiful sprays."—*Journal of Laryngology and Rhinology*, December, 1890.

Supplied to the trade at 5s. 6d. and 8s. 6d. each. Retail 7s. 6d. and 12s. each.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, London, E.C.

Will be happy to send Illustrated Price Lists to Pharmacists post free on request.

# Improved Products.

LONDON]

JANUARY 31st.

[1891.

## ZYMINE PEPTONISING POWDERS (Fairchild).

Indigestibility means insolubility, and the indigestibility of cows' milk as compared with mothers' milk lies in the insolubility (or toughness) of its casein.

The great danger of cows' milk to invalids and infants is that it forms dense, heavy, and indigestible curds, which irritate and influence the stomach, and are the occasion of much mischief in infant feeding, dyspepsia, typhoid fever, &c.

Mothers' milk does not curdle, and if cows' milk is to be administered, neither should it curdle. To prevent the usual curdling all that is necessary is to add to each pint of milk a "Zymine" Peptonising Powder (Fairchild). Any nurse or domestic can prepare milk with these powders, so simple is their use, and the milk prepared with them will be as sweet and palatable as mothers' milk, and quite as nutritious.

Zymine itself is a pure pancreatic ferment, possessing a high standard of activity. This preparation may be advantageously dispensed when pure pancreatin is ordered in prescriptions.

The "Tabloids" of Zymine and Zymine Comp. are much appreciated by the Medical Profession as food aids in dyspepsia. Small bottles containing 25 or 100 "Tabloids" of either kind may be conveniently carried in the waistcoat pocket.

Zymine Peptonising Powders (Fairchild) are supplied to the trade in boxes, each containing 1 doz. tubes, at 14s. per doz. boxes; retail, 1s. 6d. per box.

Zymine (Ext. Pancreatis) supplied in  $\frac{1}{4}$ -oz. and 1-oz. bottles at 20s. and 60s. per doz.; retail, 2s. and 6s. each.

Zymine "Tabloids" supplied at 18s. and 48s. per doz.; retail prices, 2s. and 5s. each.

Zymine Comp. "Tabloids" supplied at the same prices.

## THERMO-SAFEGUARD FEEDING BOTTLE. (B. W. & Co. Patent.)

As a practical and scientific invention for protecting the lives of infants, nothing, except Fairchild's discovery of the pure Zymine Peptonising agents, has of late years approached in importance the Thermo-Safeguard Feeding Bottle.

"The Thermo-Safeguard Feeding Bottle enables the nurse to ascertain at all times the temperature and quantity of the food given to the child. The bottle has a great deal to recommend it, and is likely to become largely into use."—*British Medical Journal*.

"The best of all feeding bottles, and ought to be universally used."—*Edinburgh Medical Journal*.

It is admirably adapted for use in predigesting with the Zymine Peptonising Powders (Fairchild).

Supplied to the trade at 9s., 12s., and 22s. per doz.; retail prices, 1s., 1s. 6d., and 2s. 6d. each.



## PEPSIN (Fairchild).

IN SCALES OR POWDER.

Possesses the highest standard of activity and permanency.

The Pepsin prepared by the Fairchild process possesses ten times the proteolytic power of commercial pepsins when subjected to the Pharmacopœia test—i.e., 1 grain will digest 1,000 grains of coagulated albumen, instead of 100 grains only. Those pharmacists anxious to obtain a pepsin of the greatest activity for the preparation of wine, elixir, or solution should order the Fairchild's Pepsin in scales or powder. It is ten times as powerful a digestive agent, and is not more expensive, than ordinary commercial pepsins.

The *Edinburgh Medical Journal* writes:—"Pepsin (Fairchild) excels all other preparations of Pepsin with which we are acquainted."

Pepsin "Tabloids" contain each a grain of Pure Pepsin (Fairchild). Pepsin, as too often given, exerts no activity, because without an acid. This has been taken into account in making the "Tabloids," and they contain, in addition to Pepsin, a little acid with appropriate aromatics. They are extremely pleasant to take, and children eat them as readily as sweets. They do for the weakened digestive organs what they are unable to do for themselves. The action is pronounced, and the digestive assistance they give is generally immediate and complete. One point which should be borne in mind in giving Pepsin is that to continue its action the patient must drink a fair amount of water, for, as peptones accumulate, the action of this ferment diminishes, until it finally ceases.

Pepsin (Fairchild), supplied in scales or powder, in  $\frac{1}{4}$ -oz. and 1-oz. bottles, at 20s. and 60s. per doz.; retail, 2s. and 6s. each.

Pepsin "Tabloids," in bottles of 25 and 100, at 14s. and 42s. per doz.; retail, 1s. 6d. and 4s. 6d. each.

## DIALYSED IRON (Wyeth). (B. W. & Co.)

A pure neutral solution of Peroxide of Iron in the colloid form. Does not injure the teeth nor constipate. Each fluid ounce contains 27.68 grains.

It is a preparation of invariable strength and purity, obtained by a process of Dialysation, the Iron being separated from its combinations by endosmosis, according to the law of diffusion of liquids.

It affords, therefore, the very best mode of administering Iron in cases where the use of this remedy is indicated.

Report of the *Lancet*:—"It is, of its kind, a perfect preparation, and is often taken without difficulty when other forms are not well borne. It is the best antidote in cases of acute poisoning by arsenic."

Supplied to the trade, in  $\frac{1}{4}$ -lb. and 1-lb. bottles, at 27s. and 42s. per doz.



## IMPROVED PRODUCTS—continued.

## BEEF AND IRON WINE (Burroughs).

Highly concentrated Strength-giving Tonic Food. Each tablespoonful represents the tonic and stimulant value of one ounce of GOOD FRESH BEEF with one grain of iron, in a pure MEDICINAL WINE, previously freed from tannin.

It keeps well, and when introduced commands a ready sale.

The *Lancet* reports:—"This is a really valuable preparation, and, as far as we know, a novelty. Children, as well as adults, take it easily, and, as its taste is by no means unpleasant, it can hardly fail to attain great popularity." The *British Medical Journal* reports:—"It is a pleasant tonic and mild stimulant, and will be found useful in cases where the use of a blood tonic is indicated."

Supplied to the trade in  $\frac{1}{2}$ -lb. and 1-lb. bottles at 22s. and 42s. per dozen; retail, 2s. 6d. and 4s. 6d. each.



## PINOL INHALER (B. W. &amp; CO.).

THE PINOL EUCALYPTIA DRY INHALER.—The medication is volatilised by the air in its passage through a saturated medium, and is conveyed into the lungs and air-passages.



This Inhaler may be employed at any time without danger of catching cold, and may be conveniently carried in the vest pocket, charged ready for use.

## HYPODERMIC "TABLOID" POCKET CASES (B. W. &amp; CO.).

Equipped with a No. 7 B. W. & Co. Hypodermic "Tabloid" Pocket Case (15s) the Physician has a more complete armamentarium for procedure in emergencies than is elsewhere procurable.

This is the most complete and convenient Hypodermic "Tabloid" Pocket Case ever introduced, and has been adopted by the leading Physicians throughout the world, and is used on the principal steamships under requirement of the new medical regulations of the Board of Trade.

No. 7 (B. W. & Co.) Hypodermic "Tabloid" Pocket Case, arranged to contain 12 Tubes of the HYPODERMIC "TABLOIDS," Hypodermic Syringe with 2 Needles, and Mortar and Pestle for crushing the "Tabloids," 5s. each to the Trade.

The same Case, fitted complete, and fitted with 12 Tubes of the Hypodermic "Tabloids," selected from the list, 15s. each to the Trade.



## "HAZELINE."

This preparation contains the well-known astringent, anodyne, and hæmostatic properties of the Witch Hazel in a concentrated and agreeable form. The chief active principles of Witch Hazel are volatile; it is therefore apparent that the Tinctures and Evaporated Fluid Extracts do not really represent the therapeutic value of the drug. Besides a small amount of tannin, all the active constituents are volatile and are usually dissipated during the process of drying the drug.



The Witch Hazel Plant.  
(Hamamelis Virginica, Linn.)

Hazeline is supplied in  $\frac{1}{2}$ -lb. and 1-lb. bottles at 14 and 42s. per doz.; Retail 1/6 and 4/6 each.

[See also Hazeline Cream, p. 90.]

## HYPODERMIC "TABLOIDS"

(PREPARED BY BURROUGHS, WELLCOME & CO.).

The Hypodermic "Tabloids" are soluble, of uniform activity, and keep perfectly. In solution, whether prepared with an antiseptic or not, most of the active principles quickly undergo change. All the alkaloids and glucosides are perfectly preserved in the "Tabloids," and may be quickly dissolved as required.

The *Lancet* reports that—"they are readily soluble and not at all irritating." They present the advantages that the dose is always accurate, the active principle unchangeable, and that they are compact and perfectly soluble.



Tube of Hypodermic "Tabloids"  
(PREPARED BY BURROUGHS, WELLCOME & CO.).

	Each.	LIST.		Each.
Aconitine ... ..	1-260 gr.		Hyoscyamiae Sulphate...	1-50 & 1-20 gr.
Apomorphine Hydrochlor	1-15 & 1-10 gr.		Morphine Bi-Meconate ...	1-8, 1-6,
Atropin Sulph. ... ..	1-150, 1-100, & 1-60 gr.			1-4, & 1-3 gr.
Caffeine Sodio-Salicylate	1-2 gr.		Morphine Hydrochlor. ...	1-4 gr.
Cocaine Hydrochlor ...	1-6, 1-4 & 1-2 gr.		Morphine Sulphate ...	1-12, 1-8, 1-6,
Codolone Phosphate ...	1-4 gr.			1-4, 1-3 & 1-2 gr.
Colchicin ... ..	1-100 gr.		Morphine and Atropin combinations.	
Cornutine ... ..	1-60 gr.		Pilocarpinellydrochlori-10, 1-3, & 1-2 gr.	
Cuscuta ... ..	1-12 gr.		Quinine Hydrobromate ...	1-2 gr.
Digitalin (Crystalline)...	1-100 gr.		Sclerotic Acid ... ..	1-2 & 1 gr.
Ergotinin ... ..	1-150 & 1-300 gr.		Sparteine Sulphate ...	1-2 gr.
Eserine Salicylate ...	1-100 gr.		Strophanthin ... ..	1-500 gr.
Homatropine Hydrochlor	1-250 gr.		Strychnine Sulphate ...	1-150, 1-100, & 1-60 gr.
Hydrarg. Perchlor. ...	1-60 & 1-30 gr.			
Hyosine Hydrobromate ...	1-200 & 1-75 gr.			

New formulæ are being constantly added to this list.

Put up in tubes, each containing 20 tabloids, at 12s. per dozen tubes, with the exception of Nos. 1, 7, 20, 21, 31, 32, 33, 40, 41, 42, 43, 48, 53, and 56, which contain 12 tabloids.

## IMPROVED CHLORIDE OF AMMONIUM INHALER (Vereker's).

We have made several important improvements in this favourite inhaler, not the least important of which is the new valve, which prevents the possibility of blowing the water into the acid or ammonia bottles. The new style case is also a great advantage in protecting from breakage.

"The vapour of Chloride of Ammonium removes unhealthy and offensive secretions, and restores the long diseased or weakened nasal and respiratory mucous membrane to a healthy state, so that in cases of catarrh, where thickening, induration, and irritation exist, a most decided improvement is brought about in a short time." In "throat-cough," pharyngeal irritation, and relaxation and weakness of the throat, it acts as a most effective alternative and tonic to the mucous membrane.

The Vereker Chloride of Ammonium Inhaler affords perfectly neutral fumes, and is always ready for use.

Dr. SMYLY, Ex-Pres, Royal College of Surgeons, Ireland, says:—"It is the best Inhaler for Chloride of Ammonium I have met with."

Supplied to the trade at 5s. each; retail, 7s.



## VAPOROLES.

VAPOROLES.—These are elegant little silken sacks, enclosing very friable glass capsules, each of which contains sufficient for one inhalation of any medicinal compound commonly employed for inhaling purpose.

The *British Medical Journal* says:—"Of these very useful vaporoles each one is marked with a number, and on reference to a list sent the prescriber can ascertain to which vaporole each number corresponds, since it is not always desirable that a patient should know what remedy is being prescribed."

Supplied to the trade in boxes, each containing twelve Vaporoles, at 24s. per dozen boxes.



ABOVE PRICES SUBJECT TO USUAL DISCOUNT.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

Will be happy to send Price Lists to Pharmacists post free upon request.

# GOOD REASONS WHY KEPLER SOLUTION OF COD LIVER OIL

Is so much liked by Physicians.

BECAUSE:—1. It is palatable.

2. It is perfectly borne by the most fastidious stomach.

3. It is more readily assimilated than any similar preparation.

4. The diastase present assists the debilitated digestive functions in the assimilation of starch.

5. The Cod Liver Oil is not simply finely divided, but it is in *solution*.

6. It is found to be THE food in phthisis and wasting diseases.

7. It contains a larger amount of reconstructive elements than any known nutritive material.

8. In it are retained the natural phosphates of the malt, so essential to bone formation.

9. It is an ideal *chemical food* for rachitic patients.

10. The Cod Liver Oil is not tasted, and when taken does not cause eructations.

11. It is the best renovating medicine for use in convalescence from acute diseases.

BECAUSE:—

12. It is recognised as an admirable food in fevers.

13. The ready digestibility of the Kepler Solution of Cod Liver Oil adapts it well to the needs of the consumptive, the scrofulous, rickety, rheumatic, convalescent, and all who have lost or are losing weight. In the constipation of infants and the chronic constipation of adults it is a useful dietetic corrective.

The *Lancet* reports:—"It has hardly any taste of the oil. Many can take it easily who cannot take the oil."

The *Medical Press and Circular* says:—"The Kepler Solution is the most palatable and easily digested of any form of Cod Liver Oil."

## NOTE THE REDUCED PRICES.

The Kepler Solution of Cod Liver Oil and Kepler Malt Extract supplied to the Trade in bottles containing  $\frac{3}{4}$  lb. and  $1\frac{1}{2}$  lb., at 20s. and 36s. per dozen. Retail, 2s. 6d. and 4s. Supplied by all Wholesale Houses throughout the world.

ABOVE PRICES SUBJECT TO USUAL DISCOUNT.

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.

"An ideal form for the administration of fat."  
(British Medical Journal.)

# Soluble "Tabloids" of Compressed Drugs.

LONDON]

JANUARY 31st.

[1891.

## VOICE "TABLOIDS."

Composed of COCAINE, Chlorate of Potash, and Borax.



Impart a clear and silvery tone to the voice. Easily retained in the mouth while singing or speaking. Now used by the leading singers and public speakers throughout the world.

**DIRECTIONS.**—A single "Tabloid" may be slowly dissolved in the mouth to remove huskiness or hoarseness.

Supplied to the Trade in beautifully graven white metal boxes, with blue silk labels, at 8s. and 16s. per dozen. Retail prices, 1s. and 2s. per box.

## COMPOUND SULPHUR "TABLOIDS."

In skin affections, &c., the exhibition of sulphur has been attended with success in morbid conditions of the alimentary canal and pulmonary passages, cystitis and diseases of the urinary tract, chronic articular diseases and morbid conditions of the muscular system.

The Compound Sulphur "Tabloids" (Sir A. Garrod's Formula) are perfectly preserved, packed in oval bottles, convenient for carrying in the waistcoat pocket, and for palatability and elegance are a distinct advance in the pharmaceutical preparation of this drug.

Compound Sulphur "Tabloids" supplied to the Trade in bottles of 25 and 100 at 4s. 6d. and 10s. per doz.

## ANTIPYRIN "TABLOIDS."

Probably no drug has deservedly met with more success than Antipyrin. It is of the first importance to reduce the

temperature in fevers, and as a remedy in migraine and headache, it acts as an anodyne, relieving pain in neuralgia, lumbago, and sciatica, and rivals salts of iron as a hæmostatic. In erysipelas it affords relief by reducing the heat of inflammation. Antipyrin may be safely administered to children in  $\frac{1}{2}$ -grain doses for each year the child is old.



In migraine and headache small doses

(3 or 4 grains) give very satisfactory results.

Antipyrin "Tabloids" (5 gr.) supplied to the Trade in bottles of 25 and 100 at 16s. and 54s. per doz.

## SULPHONAL "TABLOIDS."

"This salt, unlike opium and morphine, does not compel sleep, but induces it in a pleasant manner, and is attended by no toxic symptoms."—Dr. LAUDER BRUNTON, Croonian Lecture, 1889. "Chloral depresses the heart's action. Paraldehyde imparts a disagreeable odour to the breath for some time after administration. Sulphonale possesses the properties of an ideal sedative, acting only as an hypnotic to the sensory nerves, without affecting the other tissues, and does not require increasing doses to produce calm and refreshing sleep. Sulphonale is a soporific affecting neither digestion, pulse, nor temperature; very efficacious in insomnia and sleeplessness of nervous subjects."—*British Medical Journal*, vol. i., 1888, fol. 864.

Sulphonale "Tabloids" supplied to the Trade in bottles of 25 and 100 at 8s. 6d. and 24s. per doz.

## "TABLOIDS" prepared by BURROUGHS, WELLCOME & CO.

- |  |   |
|--|---|
| <p>Aconite Tinct., 1 min.<br/>Aloin, 1-10 gr.<br/>Ammon. Bromide, 5 and 10 gr.<br/>Ammon. Chloride, 3, 5, and 10 gr.<br/>Ammon. Chloride with Borax.<br/>Antacid.<br/>Anti-Constipation { Aloin, 1-5 gr.<br/>Belladon. Ex., <math>\frac{1}{2}</math> gr.<br/>Strych., 1-60 gr.<br/>Ipecac., 1-16 gr.<br/>Antifebrin, 2 gr.<br/>Antim. Tartrate, 1-50 gr.<br/>Antipyrin, 5 gr.<br/>Apomorphine Mur., 1-50 gr.<br/>Arsenious Acid, 1-100 and 1-50 gr.<br/>Atropine Sulph., 1-100 gr.<br/>Belladonna Tinct., 1 min.<br/>Bismuth Subnitrate, 5 and 10 gr.<br/>Blue Pill, 3 gr.<br/>Borax, 5 gr.<br/>Caffeine Citrate, 2 gr.<br/>Calcium Sulphide, 1-10 gr.<br/>Calomel, 1-10 and 1 gr.<br/>Capsicum Tinct., 1 min.<br/>Cascara Sagrada Dry Ext., 2 gr.<br/>Cascara Comp. (Cascara Sagrada Ext. (dry), 1 gr., Enoxymine, <math>\frac{1}{2}</math> gr., Nux Vomica Ext., 1-16 gr., Hyoscyam. (dry) Ext., 1-3 gr.<br/>Cathartic Comp., U. S. P.<br/>Charcoal, 5 gr.<br/>Chloralamid, 5 gr.<br/>Chloral Hydrate, 5 and 10 gr.<br/>Cocaine, Potash and Borax (Voice).<br/>Crete Aromat. cum Opio Pulv., 5 gr.<br/>Digitalis Tinct., 1 min.<br/>Digitalin, 1-100 gr.<br/>Dover Powder, <math>\frac{1}{2}</math> and 5 gr.<br/>Enoxymine Resin, <math>\frac{1}{2}</math> gr.<br/>Ferrum Redactum, 2 gr.<br/>Hydrarg. cum Creta (Grey Powder), <math>\frac{1}{2}</math> gr.<br/>Hydrarg. lod. Rub., 1-20 gr.<br/>Hydrarg. lod. Vir., <math>\frac{1}{2}</math> gr.<br/>Hydrarg. Perchlor., 1-100 gr.<br/>Hydrarg. Subchlor. (Calomel), 1-10 and 1 gr.<br/>Hydrastia Comp. (Hydrastia Mur., <math>\frac{1}{2}</math> gr., Ergotine, <math>\frac{1}{2}</math> gr., Cannabin Tannate, <math>\frac{1}{2}</math> gr.<br/>Hydronephthol, 2 gr.<br/>Ipecac. and Opium (Dover Powd.)<br/>Ipecac. Powder, 1-10 and 5 gr.<br/>Iron and Quinine Cit., 3 gr.<br/>Laxative Vegetable (Res. Podoph., 14 gr., Ext. Coloc. Pulv., 1 gr., Jalape Pulv., Res. Leptand., aa 1-2 gr. Ol. Menth. Pip.)<br/>Lithia Carbonate, 2 gr.<br/>Manganese Dioxide, 2 gr.<br/>Morphine Sulph., 1-20 and <math>\frac{1}{2}</math> gr.</p> | <p>Nitro-Glycerine (See Trinitrine).<br/>Nux Vomica Tinct., 1 min.<br/>Opium Tinct. (Laudanum), 2 min.<br/>Papain (Dr. Finkler &amp; Co.), 2 gr.<br/>Pepsin, Pure (Fairchild).<br/>Pepsin Saccharated, 5 gr.<br/>Peptonio (Pepsin, Pancreatin, Laoto-Phosphate Lime, equal quantities.<br/>Phenacetin, 5 gr.<br/>Pilocarpin Mur., 1-20 gr.<br/>Podophyllin Resin, <math>\frac{1}{2}</math> gr.<br/>Potass. Bicarh., 5 gr.<br/>Potass. Bromide, 5 and 10 gr.<br/>Potass. Chlorate, 5 gr.<br/>Potass. Chlorate with Borax<br/>Potass. Iodide, 5 gr.<br/>Potass. Nit. (Sal Prunella), 5 gr.<br/>Potass. Permanganate, 1 and 2 gr.<br/>Quinine, 1-10, <math>\frac{1}{2}</math>, 1, 2, 3, and 5 gr.<br/>Rhubarb, 3 gr.<br/>Rhubarb Comp. (Pill), 3 gr.<br/>Rhubarb Comp. Pulv. (Gregory Powder), 5 gr.<br/>Rhubarb and Soda, 5 gr.<br/>Saccharin, <math>\frac{1}{2}</math> gr.<br/>Salicin, 5 gr.<br/>Salol, 5 gr.<br/>Santonin, <math>\frac{1}{2}</math> gr.<br/>Soda Bicarbonate, 5 gr.<br/>Soda-Mint (Soda Bicarh., Ammon. Carb., and Mint).<br/>Soda Salicylate, 3 and 5 gr.<br/>Strophanthus Tinct., 2 min.<br/>Sulphonale, 5 gr.<br/>Sulphur Comp. (Dr. Garrod's Formula).<br/>Tannin, 2<math>\frac{1}{2}</math> gr.<br/>Test Tabloids (Fehling's)<br/>Thiost<br/>Tonic Comp. (Iron Pyrophos., 2 gr., Quinine Sulphate, 1 gr., Strychnine Sulph., 1-100 gr.)<br/>Trinitrine (Nitro-glycerine), 1-100 and 1-50 gr.<br/>Trinitrine and Amyl Nitrite.<br/>Trinitrine { Trinitrine, 1-100 gr.<br/>Nitrite of Amyl, <math>\frac{1}{2}</math> gr.<br/>Comp. { Capsicum, Menthol, aa 1-50 gr.<br/>Urethane, 5 gr.<br/>Voice (Potash, Borax, and Cocaine).<br/>Warburg Tincture (30 mins. in each)<br/>Zinc Sulphate, 1 gr.<br/>Zinc Sulpho-carbolate, 2 gr.<br/>Zymine (Pancreatin).<br/>Zymine Comp. Tabloids (Zymine, 2 gr., Bismuth Subnitrate, 3 gr., Powd. Ipecac. 1-10 gr.)</p> |
|--|---|

## "TABLOIDS" OF SULPHONAL AND OTHER SPARINGLY SOLUBLE DRUGS.

"We have examined 'Tabloids' of Compressed Sulphonale, Phenacetin, &c., sent by Messrs. Burroughs, Wellcome & Co., Snow Hill Buildings, E.C., and find that when they are put into water they readily break and fall to powder, which can be easily suspended by shaking. Placed upon the tongue, they immediately begin to soften and DISINTEGRATE. This specially compressed form possesses, therefore, the great advantage of permitting the subsequent absorption of insoluble drugs in consequence of the fine state of division into which they are reduced in the stomach."—*British Medical Journal*.

These pure and portable "Tabloids" of Compressed Drugs are supplied in convenient packages for dispensing, and at greatly reduced prices.

**BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.**

Will be happy to send Price Lists and Samples of Soluble "Tabloids" to pharmacists post free on request.

# A GENTLE HINT.

## Pirates.

In a spasmodic way they appear now and then on the scene. They make bungling work of it. They copy what they think will do them most good, and not one of them has had the manliness to as much as say—"By your leave, sir." They copy our advertisements, or the "Titles" we originate, to make people believe that theirs are ours till they get into them; they have used our trade names which we have made popular and valuable by expenditure and work; they denounce the improvements we introduce, until, in spite of their underhanded manoeuvres, we secure the just appreciation of the profession, and then they make imitations in appearance, but not in quality; and in divers ways seek to deceive the profession and steal our thunder.

To us it appears truly humorous that firms whose antiquity is their prime boast, and whose traditions harp upon the integrity of ancestral founders, should play such catch-penny antics. Having won by genuine merit and originality the confidence of the profession and trade, we can, so far as we ourselves are concerned, regard these penny pirates very much like the had marksman shooting at the frogs—it was sport to the one and didn't hurt the others. Still, they give us a theme to descant upon. It is our duty to protect our friends.

When the lame man made a bargain with the blind man for the latter to carry him, they were neither of them in business worth mentioning, and the bargain was mutually advantageous; but for one who might both walk and see to saddle himself on to another is not delicate, to say the least. We feel that we can see and walk, and when those who might do the same try to ride on our industry it seems our bounden duty to point out to them how unbecoming their conduct really is.

We have become more or less used to imitators, and when the thing is done right handsomely it almost seems like a compliment; but to be a compliment it should certainly be free from the semblance of fraud. "Me too" has ever been the motto of trade pirates, and of those who have lost their grip, and of those who never deserved.

For the edification and comfort of our imitating neighbours we offer an allegory—it is a very ripe "chestnut," but a sound one; and here it is. Once upon a time—not so very long ago—as the story goes, a company of soldiers were garrisoned in mountain wilds where there were Indians on the war-path. One day a tribe of the Red Men were spied in a valley, and the troops were forthwith ordered out in great

haste. They strapped a cannon on to the back of a mule, and hastened away to give battle. When they reached the crest of a cliff they saw the war-dancers in the valley below.

They had no time to dismount the cannon, so turned the mule about as a gun-carriage, and fired. The howitzer "kicked" so tremendously that it knocked the animal off his legs, and cannon and mule rolled precipitately down the mountain into the midst of the Indians, frightening them nearly out of their wits, and they beat a hasty retreat—all but one, who was so paralysed with fear that he allowed himself to be captured and taken to the camp. When interrogated as to why he allowed himself to be taken, he exclaimed—"Me no 'fraid soldier man, me no 'fraid of cavalry man, but when live jackasses fired me, me think the devil must be near."

Though we do not confess that we are timid, or unnerved, the Indian's case is in some respects like our own. Legitimate business warfare may be engaged in with satisfaction, and we heartily applaud all new improvements and legitimate enterprises from whatever source they come; but who could desire to have trade "jackasses" precipitated upon them as competitors?

Now, Imitators, we enjoin upon you to discard your schoolboy mimics. We don't expect much of you.

Still, "Be not too bold!" "Assume a virtue if you have it not." When you want a new name for one of your products (or imitations) give it a name that does not deceive. Give it a name that

has not been made valuable by others' expenditure and industry. Give it a name that, when you make your sales, you can say to yourselves—"These do not rightfully belong to another." What is it to appropriate a trade name but to take what another has laboured for and that may become in all equity his means of subsistence. Sales thus made are dearly bought. We would suggest that those whose enfeebled intellects prevent them from creating anything original, and who find it necessary to copy the titles of our articles or advertisements, might consult a dictionary—there are upwards of 60,000 English words to choose from.

Those who have, through inadvertence, trespassed upon our rights, and who have made the *amende honorable* when we have called their attention to the trespass, we acquit of all wrong intent, and can but respect their frankness and honesty of purpose. Everyone is liable to tread unwittingly upon the rights of his fellow-men, but an honest man is ready to admit his fault and relieve his conscience. Wilful trespassers, who persist in wronging us, and thereby render themselves liable under the law, we have punished and shall punish with the utmost severity. Those who wilfully trespass upon our rights, but cunningly evade the liabilities of the law, we shall expose to the ignominy they so justly deserve.

BURROUGHS, WELLCOME & CO.

Snow Hill Buildings, London, E.C.



A Pirate of y<sup>e</sup>  
Olden Time—called  
a Knave  
in those days.



He Would Gather Other Men's Fruit.



## SOLUBLE COCAINE.

We have long made a very special feature of Cocaine, and enjoy exceptional facilities for supplying a superior product at moderate prices. The insoluble products of the market have, from time to time, caused inconvenience to the profession, and the disappointing results sometimes obtained were partly due to unreliable preparations of the drug and partly to their having undergone a change in solution.

The "Tabloids" of Cocaine dissolve almost instantaneously, and remove all possibilities of disappointment, for the Cocaine in them is the purest, the most active, and most reliable manufactured. They constitute the best and most convenient form for hypodermic medication, or for the preparation of solutions. Furthermore, they present the advantages that the dose is always accurate and the active principle unchangeable.

"Tabloids" of Cocaine (1 gr.) are supplied to the Trade, in Bottles of 100, at 14s. per Bottle. Hypodermic "Tabloids" of Cocaine ( $\frac{1}{2}$  gr.,  $\frac{1}{4}$  gr., and  $\frac{1}{8}$  gr.), in Tubes of 12 and 20 "Tabloids," at 12s. per Dozen Tubes. Subject to usual Discount.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

# HEARON, SQUIRE & FRANCIS

WHOLESALE AND EXPORT DRUGGISTS.



## SOLE CONSIGNEES FOR SAINT MARCO LITHIA WATER.

N.B.—The only natural Lithia Water ever awarded a Gold Medal.

### SPECIALITIES—"HERON" BRAND.

#### ESS. PRO MIST. FERRI CO.

1-7.

It has the strong odour and bitter aromatic taste of good quality myrrh combined with the fragrant smell of volatile oil of nutmeg.

#### EXT. EUONYMI LIQ.

A reliable Hepatic and Intestinal Stimulant.

#### EXT. KOLÆ LIQ.

A strong Tonic and Stimulant to the Nervous System, a most successful remedy in Sea-sickness.

#### EXTRACT OF MALT IN VACUO.

Keeps perfectly, and possesses the characteristic flavour of malt.

#### EXT. SALICIS NIGRÆ LIQ.

A powerful Sexual Sedative, similar in its action to Potassium Bromide, but without its depressing qualities.

#### EXT. SENNÆ LEGUMIN. LIQ.

A non-irritating, tasteless, and certain Laxative in obstinate Constipation.

#### LIQ. IPECAC. PRO VINO.

1-19.

Contains  $1\frac{1}{4}$  per cent. of Emetine, and gives a Vinum Ipecac. that is *bright, stable, and uniformly active*.

#### PEPSIN GLYCE. ACID.

A strong solution of peptic principles of definite strength: a stable and digestive fluid of great activity.

#### SOL. PEPSIN c. EUONYMIN.

A Biliary Stimulant and Digestive Agent of pronounced efficacy.

#### INFANTS' FOOD MALTED.

Supplied in bulk and in tins with plain labels.

MANUFACTURERS OF EVERY CLASS OF PHARMACEUTICAL PREPARATIONS.

Telegraphic Address—"FRANCIS LONDON."

**38 SOUTHWARK ST., LONDON.**



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Supplied regularly to every member of the following Societies, who have adopted THE CHEMIST AND DRUGGIST as their official organ.

The Pharmaceutical Association of New Zealand.

The Pharmaceutical Society of Queensland.

The Pharmaceutical Society of South Australia.

The Hobart Chemists' Association.

The Launceston Pharmaceutical Association.

Otago Pharmaceutical Association.

South African Pharmaceutical Association.

For Australasian subscribers the subsidiary journal, THE CHEMIST AND DRUGGIST OF AUSTRALASIA, is included.

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**PROFITS AND SALARIES.**—On Wednesday, in the Lord Mayor's Court, the case of Marks v. Flower came on for trial before the Recorder (Sir T. Chambers, Q.C.) and a special jury. The plaintiff, Mr. Thomas Marks, sued the defendant, who carries on business as a colonial broker at 40 Mincing Lane, under the style of James Cook & Co., to recover 1,920% alleged to be due for arrears of salary and for damages for alleged misrepresentation. The plaintiff conducted his case in person, while Mr. A. Cock, Q.C., and Mr. Johnston Watson were counsel for the defendant. The plaintiff said that thirty-five years ago he entered the service of the defendant's firm at a salary of 60% a year. A Mr. Major was the senior partner, and the defendant was not then a member of the firm. Plaintiff's salary was raised by degrees until it reached 310% per annum. Then, the plaintiff said, it was represented to him that the business was not so good as it had been, and that money was being lost. Upon that the plaintiff consented to a reduction of his salary to 200%, and afterwards to 175%. Upon the death of Mr. Major, however, the plaintiff discovered that the drawings from the business had averaged 2,200% a year by the senior partner and 1,200% by the junior. Thereupon he claimed reparation, but not meeting with any satisfaction he resigned, and brought this action. The learned Recorder directed that the plaintiff must be nonsuited, because he had proved no agreement to refund him any money deducted from his salary. Judgment accordingly, with costs.

**COMMITTAL OF A CHEMIST.**—In the City of London Court on Tuesday, before Mr. Commissioner Kerr, the case of Farina v. Stevenson was heard. The plaintiff, Mr. Johana A. Farina, 9 Coleman Street, E.C., sought to have the defendant, Mr. T. Stevenson, chemist, 14 Basinghall Street, E.C., committed to Holloway gaol for the non-payment of 12. 13s. Mr. R. B. Wagner, who appeared for the plaintiff, explained that the defendant was a chemist with a very good business. He had been in Basinghall Street for 7 or 8 years, and the shop was always full of customers. The defendant told him distinctly that as he had worried him for the money he should put him to a lot of trouble. Mr. Commissioner Kerr said the plaintiff had issued execution on the defendant's goods and yet nothing had resulted from it. Surely the things in a chemist's shop ought to produce 2%. Mr. Wagner: He told me he would put me to as much inconvenience as he could. Mr. Commissioner Kerr said he had ascertained that the reason the bailiff did not levy on the defendant's goods was because they were covered by a bill of sale, and there was a condemnation for rent. The defendant had paid his rent by giving a bill of sale. He could not help the plaintiff. He must never give credit to anybody again in London. Mr. Wagner: But I know he has means to pay. He said he would keep me out of my money. Mr. Commissioner Kerr: I can't tell the people of London how to do their business more than I do. I am always doing it. Mr. Wagner: He told me he could pay shortly before I took out this summons. Mr. Commissioner Kerr: Oh! Come. He could pay, and would not? Mr. Wagner: Yes. Mr. Commissioner Kerr said he would believe the defendant's own statement (though this was an age of chatter), and make an order for the defendant's committal to Holloway gaol for 10 days.

**ELECTING A DISPENSER AT BETHNAL GREEN.**—There was an amusing scene at the meeting of the Bethnal Green Board of Guardians on Tuesday in connection with the election of a dispenser. Before any of the candidates had been seen by the board Mr. Smither asked the chairman whether or not the appointment had been "cut and dried." The Chairman: I can't say. Mr. Smither remarked that he knew for a fact that the appointment was cut and dried. Indeed, he could point out the name of the man who was to receive the appointment. On the first candidate making his appearance Mr. Smither turned to him with the observation, "Young man, if you knew what I know, you wouldn't waste one moment in trying to get this appointment. It's

all cut and dried." The Chairman: I protest against that remark in the most solemn manner. Mr. Smither: You can protest till you are black and blue in the face, but as an Englishman I won't sit here and see a wrong done. Mr. Barnard, the chairman of the Dispensing Committee, pointed out that the appointment had been advertised. Mr. Smither: You ought to be ashamed of yourself. Mr. Milhourn: This is disgraceful. I shall move the adjournment of the board. Mr. Barnard: Do you know anything against the candidate? Mr. Smither: Go and hang your head! Mr. Bedford: You're a bully; that's what you are. The Chairman: Order! Order! I must protest in the most solemn manner against this disgraceful scene. Mr. Smither: Oh, you shut up. I'm not going to be shut up by you. I shan't sit here and see a wrong done. Mr. Barnard: Why, you ought to know better. Mr. Smither: Oh, you're a chemist, aren't you? Mr. Barnard: Yes. Mr. Smither: Then shut up. Go home and make pills. (Laughter.) Mr. Abbott: Order! Order! Let's hear the testimonials. Mr. Smither: What a farce! Why, you signed the first testimonial, but you couldn't write it. Mr. Barnard: Be quiet. "Sorry for you," remarked Mr. Smither to the candidates as they appeared; "you won't get it. It's all cut and dried. This is a corrupt board. It's a pity you wasted your time in coming here." On a vote being taken, Mr. J. Suttar was elected. "Didn't I tell you it was all cut and dried?" exclaimed Mr. Smither, triumphantly. "Smither is not a liar to-day. I may be a madman, as you call it, but I know when a job here is cut and dried."

### Provincial Reports.

*Items of news, and newspapers containing matters of interest to the trade, sent to the Editor will much oblige.*

#### BARROW.

**ALLEGED ADULTERATION OF VINEGAR.**—Last week at the Barrow Borough Police Court, a case was heard in which Messrs. Cannon Bros., of Barrow, grocers, were charged with having sold to Superintendent Hartley a pint of vinegar different in nature, substance, and quality to the article demanded. Mr. Walter Foster, of Leeds, appeared for the defendants, and also for the Camhrian Vinegar Company, of Leeds, by whom the vinegar had been manufactured. The case was before the court a month ago, when, upon Mr. Foster's application, one of the samples of vinegar which had been condemned by the Barrow borough analyst was sent to Somerset House to be analysed there. Another of the samples had also been analysed by Mr. Fairley, the borough analyst for Leeds, who pronounced the vinegar to be perfectly genuine. Mr. Fairley's analysis was fully confirmed by the certificate from Somerset House, and the summons was accordingly dismissed with costs.

#### BIRMINGHAM.

**THE CHEMISTS' BALL.**—The annual ball promoted by the Midland Counties Chemists' Association is looked forward to as one of the most interesting social events of the season. The twentieth gathering took place on Thursday of last week at the Edgbaston Assembly Rooms, and, as usual, there came together a large and fashionable assemblage. Prior to dancing there was a promenade concert, at which there was played an excellent programme of music, including the march "Triumph" (Fabian Rose); selection, "Gondoliers" (Sullivan); entr'acte, "Music hath Charms" (Crowe). The majority of guests had arrived by half-past eight o'clock, at which time dancing commenced. The president of the association (Mr. A. Southall) was amongst those present, and Professor Hillhouse, of the Mason College, and other scientific and professional gentlemen responded to the invitations of the committee. Mr. Alfred Gregory's hand supplied the dance-music, and Mr. E. J. Reynolds performed the duties of M.C. Dancing was kept up till about half-past two o'clock in the morning. The ball was eminently successful, and the way in which all the arrangements were

carried out, under the superintendence of Mr. W. Jones and Mr. F. Alcock (hon. sec.), is deserving of the highest praise.

#### LIVERPOOL.

**FAULTY DISPENSING.**—Lawton Edisbury, chemist, 27 Soho Street, was summoned on Wednesday in the City Police Court for having supplied medicine which was not in accordance with the prescription given him. Mr. Moss prosecuted. Inspector Baker stated that he visited the defendant's shop on January 9, and gave Mr. Edisbury a prescription to make up. The defendant did so, and handed witness the medicine. Witness then told defendant that he intended to have the medicine analysed, whereupon Mr. Edisbury said, "I have made a mistake; I have put in bromide of ammonium." Dr. Campbell-Brown certified that the sample submitted to him contained 11 drachm of ammonium bromide instead of 1 drachm of potassium bromide. The defendant was fined 10s. and costs.

**LEGALLY ENTITLED TO SELL THE POISON.**—At an inquest held last week on a woman named Hughes who had died from laudanum poisoning, the chemist's conduct was not such as to reflect credit on the trade. The deceased woman's daughter gave evidence that her mother had been drinking for some days. On Monday afternoon she went out of the house, and, though she was not drunk, anyone could see she had been drinking. Witness followed her, and saw her go into a chemist's shop. Witness also entered, and, seeing a man wrapping up a small bottle, she said to him, "Don't give that woman anything; she has been drinking for a week, and may be going to do something to herself." The man, however, gave the deceased the bottle, and she paid him for it. On returning home deceased went upstairs with a small jug of warm water. Witness followed her and endeavoured to get possession of the bottle, but could not find it. She then went to ask the advice of a lodger, and on returning found a bottle that had contained laudanum on the floor. Witness went then to the chemist's shop to inquire what she should do, and was told by the assistant that "he could not tell her what to do." He said that he had sold the woman half an ounce of laudanum, and that he was at liberty to sell half an ounce so long as he labelled it. Witness then went for a doctor, and afterwards administered salt and water to the deceased. After drinking deceased was in the habit of taking a few drops of laudanum. Samuel Evans, registered chemist and manager of Mr. Allan's chemist's shop at 45 Hayworth Street, Everton, said he sold the deceased half an ounce of laudanum in the bottle produced, labelled "Laudanum—Poison." He remembered the daughter coming into the shop and telling him not to sell the woman anything. Witness looked at the woman, and did not perceive that she had been drinking. When the daughter returned for advice he ought to have told her to administer an emetic, and his only explanation for not having done so was that he was very much put about, or had lost his presence of mind. After hearing the medical evidence, the jury returned a verdict of "Death from poisoning, but how administered there is no evidence to show," and added that they considered the chemist's assistant should have exercised more judgment in selling the laudanum.

#### MANCHESTER.

**POISONED BY PAREGORIC.**—Alfred Wilkinson, a pickle manufacturer, living at Chorlton-on-Medlock, was admitted to the Manchester Infirmary on Tuesday, suffering from the effects of poisoning from paregoric, of which he had taken a large quantity as a remedy for sleeplessness.

#### NEWCASTLE-ON-TYNE.

**CHEMISTS' ASSISTANTS' AND APPRENTICES' ASSOCIATION.**—At the meeting held on Wednesday evening, January 21, Mr. E. McCreery S. Hill asked the Association to take up and carry to completion the half-holiday scheme inaugurated last summer, when he and one or two friends obtained the signatures of a number of the leading chemists in favour of closing every Wednesday at one o'clock, pro-

viding the action was perfectly unanimous. This matter was postponed until later in the evening, and Mr. T. Oliver Mawson, hon. president of the association, proceeded to read a paper on "How Plants Grow." The author—who had a number of splendid slides of botanical sections, shown by the microscope, and had also prepared a few photographic enlargements of characteristic tissues to illustrate his paper—traced the forms of plants from the commencement of the lowest form of cell-life to their highest development, and the paper was of exceptional interest to students. At the close a profitable discussion took place, after which Mr. Hill initiated a discussion on the early-closing question, stating in the course of his speech that there were only three firms who refused to have anything to do with the matter, and gave their names. As some of them had shown considerable interest in the Assistants' Association since its commencement, he ventured to say that if the association could exert any influence which it might have upon the dissentients, their objections might be overcome. Mr. P. Bell, considering that it would altogether be out of place for the association to interfere with employers, moved the following:—"That, while favouring such a proposal, we, as an association, have nothing to do with the matter; but that an independent committee, outside of the association, be formed to take the matter up." Mr. T. H. Kellet moved as an amendment:—"That in view of the importance of the subject under discussion, no action be taken at the present meeting, but that the discussion be adjourned till next meeting." Mr. Merson seconded the amendment, and on being put to the vote it was carried by a considerable majority.

#### NOTTINGHAM.

CLARA'S VANITY OVERCAME HER PROBITY.—At the Shire Hall, Nottingham, on January 24, Clara Fletcher, of Beeston, aged 66, was charged with stealing a bottle of hair-restorer, value 1s., the property of Mr. E. E. Jenkins, chemist, of Beeston, on January 22. It appeared that the prisoner went into the shop and asked for something. The assistant had to go to another part of the shop for what she wanted, and on returning to the counter he missed the bottle of hair-restorer, which he had seen safe just before. He accused the prisoner of stealing it. Another witness deposed to seeing the prisoner take the bottle from the glass case and put it in her pocket. The prisoner had been convicted seventeen times before, and suffered all kinds of imprisonment, including several terms of penal servitude. On this occasion she was sentenced to undergo three months' imprisonment.

#### PLYMOUTH.

THE PHARMACEUTICAL SOCIETY *v.* TRADE UNIONISM.—A lengthy correspondence is now appearing in the local papers on the Recorder's recent decision in the trade-union case. Mr. F. P. Balkwill, pharmaceutical chemist, having taken part in the discussion, the secretary to the Labour Council, writing, says, "He (Mr. Balkwill) is connected with one of the most forcible and stringest trade unions in the United Kingdom—the Pharmaceutical Society—with which union no one dare attempt to meddle, no matter how well versed he may be in the science of chemistry, or how well adapted his qualification for dispensing drugs. . . . The State-protected union of the chemist would be down upon him like an avalanche." Mr. Balkwill, replying, says, "The Pharmaceutical Society does not include more than half of the chemists in business, and registers free of expense all who pass the examinations required by law. No person who is qualified is in any way molested in his business by the Pharmaceutical Society."

#### SCOTLAND.

##### EDINBURGH.

THE CHEMISTS' BALL, held in the Assembly Rooms, George Street, on Thursday evening, January 22, was the eighth of the kind, and was attended by about seventy couples. Herr Dambmann's band supplied the music, and Messrs. J. P. Thomson and J. Blenkiren piloted the dance.

At the supper Mr. David McLaren presided, and toasted Mr. Michael Carteighe, who was present, and that gentleman, as "a nervous stranger," proposed "Success to the Edinburgh chemists' ball, and the health of the ladies" in a lengthy speech, in the course of which he spoke a good deal of his dancing experiences. After this dancing was resumed, and was kept up with spirit until an early hour.

#### GLASGOW.

ASSISTANTS' ASSOCIATION.—At the fortnightly meeting on January 21, there was a brisk discussion on the "draft Pharmacy Bill," which was favourably viewed by a majority of the speakers. Some exception was taken to section 7, even by those who desired to bring about the enforced qualification of the assistant on the ground that the phrase "immediate supervisor" is too indefinite, and might with a little ingenuity be evaded and rendered virtually inoperative. No vote was taken, but the predominant sense of the meeting was that the Bill, with some modifications, should be promoted by the trade.

THE CARTEIGHE MEETING.—Mr. Carteighe can now say with respect to Glasgow, "Veni, Vidi," and, if self-complacency carries him so far, "Vici." The arrangements for the Glasgow meeting came perilously near miscarriage—its omission from the Scotch campaign being only averted at the last moment by the strenuous exertions of Mr. Rutherford Hill. The meeting itself was a tolerably creditable one, both in respect of attendance and representativeness, the wholesale, retail, and medico-druggist sections of the trade being fairly in evidence, although the unfortunately exclusive wording of the circular calling the meeting, which was headed "Meeting of Registered Chemists and Druggists," must have militated against the attendance of medical men. Mr. McAdam, in referring to this matter, mentioned that when he read the circular he at once informed the secretary (Mr. Finlay), that he would not take the chair unless the meeting was to be open to all persons connected with the drug trade, and it was only on an assurance that measures would be taken to ensure this expansive hospitality, that he agreed to preside at the meeting. As we are not aware that a new set of circulars was issued, or that any effective means were taken to advertise the enlarged scope of the meeting, we are not able to describe the process by which Mr. McAdam's scruples were overcome. Mr. Carteighe, if not very enthusiastically, was most cordially welcomed, and delivered his address—which was for the most part the stereotyped one which has served him on his round—with characteristic fluency. There were one or two passages which seemed to have been prepared for the occasion—notably the emphatic disavowal, on behalf of the class which the President described as "West-end chemists," of any intention to crush their humble brethren of the east and other quarters of the compass out of existence. Mr. Kinninmont, who has long been waiting for an opportunity to give Mr. Carteighe a piece of his mind, and who drew forth from an ominous black bag a mass of papers at which the President glanced askance, opened fire by declaring that all that was wanted was a reversion to the first principles of the Act of 1868. Becoming more forcible in language and manner, he exclaimed that it was preposterous to assert that that Act required the qualification of the assistant, when at the time of its passing there were only 177 qualified assistants on the register. If the Act had been enforced as, according to Mr. Carteighe and others, it should have been, the drug trade would have suffered a paralysis compared with which the demoralising effects of the railway strike were a mere trifle. Waxing yet more vehement, Mr. Kinninmont animadverted severely on recent judicial definitions of the word "seller." If, urged the speaker, the Society accepted these definitions, which practically obliterated the difference between the owner of a business and his employee, then the Registrar should be instructed to give registration to persons who had been in the business, not necessarily on their own account, before 1868. The only defect in the present Act was the ambiguity of the words "person" and "in business"; this might be removed by a clause reading "any person or persons" and "in business on his own or their own account." Mr. Carteighe several times interrupted Mr. Kinninmont—once to say that his recollection differed from Mr. Kinninmont's as to the

primary intention of the Act in relation to assistants, and again to point out what he regarded as the uselessness of trying to tinker the present Act. Mr. Laing, the next speaker, rose to bless the Bill, to curse the stores, to recommend that it should be made obligatory that all applicants for the honours of apprenticeship should pass the Preliminary examination before entering the shop, and to submit a plea for the sufferance of middle-aged qualified assistants, now practically incapacitated for systematic study or for other kinds of work. These views Mr. Laing expressed in the motion which subsequently became the finding of the meeting. The two succeeding speakers, Mr. J. Walker (Glasgow Apothecaries' Hall) and Mr. Cairncross (town traveller for Messrs. Lorimer & Moyes), also championed the cause of the middle-aged unqualified assistant, both protesting, with rather superfluous disinterestedness, that at present they were not personally concerned in the issue, but that from a pure love of fair play they felt constrained to assume that attitude. Mr. W. L. Currie, who is always of a sanguine temperament, expressed his firm belief in the beneficence of the 1868 Act. Mr. White created some amusement by qualifying his encomiums on the President's speech by adding that "there was a great deal of sophistry about it." Mr. Lees (a well-known local teacher of pharmacy), who spoke with vociferous energy and a redundancy of gesticulation that somewhat alarmed those sitting near him, made a stinging attack on the Pharmaceutical Society, pharmaceutical legislation, and things in general, winding up with an amendment disapproving of the draft Bill. This was seconded by Mr. Boyd, but, as already reported, was lost by a considerable majority.

Now that the first impressions produced by the meeting have been revised by mature reflection, the residual feeling among most of those who attended it seems to be that its results are practically *nil*. As one druggist pithily put it, "Mr. Carteighe comes to lay down the law, and seems to resent anything like dissent or criticism. His ostensible desire to elicit the opinion of the trade upon this or any other question is a hollow formality. His constituents have come to see this, and the consequence is that there is a tacit understanding among them as to the futility of openly opposing his policy, but the hostility exists to it nevertheless, and, as has happened before, when the critical moment arrives a petition to Parliament or a little lobbying with some bill-blocking M.P. will put an extinguisher on his pet draft Bill."

## General News.

**CHEWING-GUM.**—A Hanley shopkeeper has been prosecuted for selling chewing-gum containing 50 per cent. of paraffin wax, and has set up the defence that the gum is neither a drug nor a food. In evidence of the latter fact he pointed to the wrappers it was sold in, which bore the words, "This is not to be eaten. Wild Rose. For chewing only." The Hanley magistrates have determined to take a week to consider the case, although the question has already been decided.

**LIVING ON CHLORODYNE.**—At an inquest held at Walworth a few days ago, it was stated that deceased, a woman of 35 years of age, living apart from her husband, described as a dirty, filthy woman, drank whisky and chlorodyne wholesale; the previous week she drank five bottles of chlorodyne, the last one in a quarter of an hour. She used to roll about the place and fight like a maniac; she died raving mad. Dr. Faulkner said she almost lived on chlorodyne. She begged of him not to stop it, as she could not live without it. The Coroner: It is really a case of chlorodyne-poisoning. Witness: Yes. A verdict accordingly.

**METHYLATED SPIRIT AS A BEVERAGE.**—In the House of Commons on Monday, Mr. O'Neill asked the Chancellor of the Exchequer if his attention had been called by the Inland Revenue authorities, or otherwise, to the fact that methylated spirit, as well as ether, was used as an intoxicating beverage in parts of the counties of Antrim and Derry; and, if so, what steps he intended to take to check

the evil resulting from such a dangerous practice. Mr. Goschen: The Inland Revenue Commissioners have carefully inquired into the allegation that such a use is made of methylated spirit, but have not been able to find that the practice prevails. If my hon. friend has any evidence as to its prevalence the matter will be inquired into.

**SUDDEN DEATH IN A CHEMIST'S SHOP.**—On Monday afternoon a sad fatality occurred in the shop of Mr. T. Kirkham, chemist, of the Butter Market, Bury St. Edmunds. Mr. G. Walter Farrow, a farmer and dealer, about 60 years old, having returned from a journey to Cambridge, went into Mr. Kirkham's shop, where he remarked that he did not feel well, and said if he got up next morning early enough he would consult his medical adviser. He had scarcely uttered the words when he fell on the floor. Mr. Kirkham and one of his daughters endeavoured to render help, and medical aid was immediately summoned, but Mr. Farrow is believed to have expired before the surgeon's arrival. Death is supposed to be attributable to a fit of apoplexy.

**CARBOLIC-ACID POISONING.**—A retired tradesman named Frederick Warren, 62, residing at Tottenhall, died on January 23 through taking carbolie acid. A bottle was kept in the water-closet, and was labelled "Poison." He seems to have drunk from that bottle.—On Tuesday night a well-dressed lady, about 28 years of age, was found in a waiting-room at Rugby station insensible, and with a bottle of carbolie acid by her side. She had evidently taken some of the contents of the bottle. Medical assistance was obtained, but she died in half-an-hour. She had a ticket from Liverpool to Oxford in her possession, and letters addressed from Merton College, Oxford, signed "Your loving husband, Jack," but there was nothing to indicate the reason for the probable suicide.

**DISPENSING IN WORKHOUSES.**—At the meeting of the Stoke Newington Guardians on Wednesday last a letter was read from Dr. West, in reference to a report of the Local Government inspector, as to the inexpediency of continuing the present method of dispensing at the workhouse. The work had been carried on for twenty years by the head nurse, but as the Local Government Board were insisting that it should be done by qualified men, he suggested either the appointment of a qualified non-resident dispenser or a resident medical officer, who should dispense as part of his duties. If a dispenser were decided upon, they could get a local chemist for an hour a day; and if they decided upon a resident officer, a good man could be got for 60*l.* or 70*l.* per annum, with board and lodgings. The letter was referred to the finance committee.

**SELLING PATENT MEDICINES WITHOUT A LICENCE.**—At the Falmouth Police Court, on Monday, John Albert Rowe, a shopkeeper, of High Street, Falmouth, was summoned at the instance of the excise authorities for selling Sequah's oil and prairie flower without having a licence. Mr. Adams, supervisor, explained that the medicines were subject to stamp duty, and as such were patent medicines. Defendant was selling the oil and prairie flower without a licence, and the district excise officer advised him to take out a licence. This he neglected to do, and a purchase afterwards being made by the officer the matter was represented to the Commissioners. Mr. Adams recommended that there should be no prosecution provided defendant immediately took out the licence and paid a nominal fine. Defendant then took out the licence, but refused to pay the 5*s.* fine, and there was no alternative but to take proceedings against him. Defendant rendered himself liable to a penalty of 20*l.*, but Mr. Adams did not wish to press the case. Defendant swore he sold no medicine prior to taking out a licence. The bench convicted, and fined defendant 7*s.* 6*d.* and 12*s.* 6*d.* costs. Defendant became very violent, and declared it was a robbery. He would go to prison rather than pay. He was told that in default of distress he would be sent to prison for seven days, when defendant repeated that it was a robbery, and he would sooner do seven years than pay the fine. Eventually he was ordered out of court.

GLUCOSE is produced in the United States at the rate of 1,000,000 lbs. per day, principally in the Western States. The bulk of it enters into home consumption.

## Foreign News.

## LIBRARY

## Legal Reports.

**A ROYAL CHEMIST.**—Princess Liliuokalani, who now succeeds her brother, the late King Kalakaua, as Queen of Hawaii, is a woman of over fifty years of age. Her husband—now the Prince Consort—was originally an American chemist and druggist.

**MONOPOLY FOR OIL-EXTRACTION IN BRAZIL.**—According to the *Rio de Janeiro Jornal do Comercio*, a decree had been signed granting a monopoly within certain districts of Pará and Amazonas to two citizens for extracting vegetable oils. The monopoly is for twenty years.

**"SEQUAH" IN MADRAS.**—Sequah is in Madras. Who he is no one appears to know; but he professes to do wonders in the curing line, and is attracting large crowds of the ignorant. His method of bidding for the attention of the local "submerged" tenth is primitive, but decidedly effective. —*Madras Times*.

**VIVISECTION LAW IN DENMARK.**—The committee of the Landsting, to which the Danish Government Bill regulating vivisection was referred, has now published its report on the subject. The principle of the measure providing that an official licence shall be requisite to conduct vivisection is agreed to. The Government proposal to include in the Bill not only mammalia but insects and fishes has been modified in such a manner that the Bill shall apply to warm-blooded animals only. The issue of licences is to be made by the Minister of Justice. For the employment of assistants at vivisections a special licence will be required.

**A DISPENSING ERROR IN GERMANY.**—A singular case in connection with a mistake in dispensing is now occupying the attention of the Berlin authorities. Some time ago a prescription was presented to the assistant at a Spandau pharmacy ordering a draught composed of sodii nitrat., potas. bromid., aq. dest., and syr. mannæ, for a child. The assistant by mistake dispensed spirit of camphor instead of the distilled water, but the error was discovered after the administration of the first dose to the patient, and no ill results followed. But the father thought he would try to make some capital out of the mistake, and threatened the pharmacist with exposure, demanding first 3,000 marks as hush-money, and, when that was refused, dropping his price for secrecy to 140 marks. But the chemist declined to compromise, and the father wrote about the mistake to the local press. The police got wind of the affair, and they are now killing two birds with one stone. The chemist's assistant was prosecuted for causing bodily injury through carelessness, and fined 50 marks, and the would-be blackmailer is being dealt with for the more serious offence of trying to commit illegal extortion by threats.

**ALKALI IN THE UNITED STATES.**—Under the style of the Pacific Coast Borax Company a new corporation has just taken the place of several companies formerly engaged in borax production in California and Nevada—viz., the Pacific Borax Salt and Soda Company; the Teels Marsh Borax Company, of Nevada; and the borax interests of the late firm of W. T. Coleman & Co., including the Calico Borate Mine in San Bernardino County, Cal., and the Alameda Refinery, on the Bay of San Francisco. The new concern also absorbs the Oregon Borate Mine at Chetco. The capital of the company, which has its headquarters in San Francisco, is \$1,500,000. It is further announced that the Soda Lake property in Natrona County, Wyoming, has been transferred to a large syndicate, composed of English and French capitalists, for the sum of \$2,000,000. It is stated that the soda at this lake is found already transformed by nature into a sulphate, leaving the only remaining process one to convert it into carbonate, which reduces the cost of production fully 50 per cent. The deposits cover about 240 acres, and an excavation 40 feet deep has failed to show any indication of exhaustion in that direction. Hitherto nearly all the soda used in America has been manufactured in England and France, but the European manufacturers who are interested in the scheme are said to be preparing to establish gigantic alkali-works near Denver City to work the deposits.

**A DRUGGIST'S PARTNERSHIP.**—HANBURY v. JEWELL.

THIS was a motion in the Chancery Division of the High Court of Justice, before Mr. Justice North last week, asking that the defendant, Thomas Irwin Wallas, might be restrained until the trial of the counter-claim or further order from applying any of the monies of the partnership business for his own use unless and until he shall have refunded or made good the monies owing by him to the partnership in respect of excessive drawings on his part. It will be seen from the following summary that the motion was in connection with somewhat complicated litigation relating to a partnership business of chemists and druggists carried on at Vere Street, Oxford Street, W.

Mr. Terrell appeared for Mr. Jewell; Mr. Chitty for the co-defendant, Mr. Wallas; Mr. Alexander Young for the plaintiffs, the two Hanburys.

Mr. Turrell, in support of the motion, said the partnership commenced in 1885, being formed to carry on the business of chemists and druggists. There was a provision in the partnership deed that the partnership should continue until December 30, 1890. By the articles of partnership Mr. Jewell and Mr. Wallas were each to draw 250*l.* a year on account of their respective share of profits. It was alleged that Wallas had, in breach of the agreement, overdrawn to the extent of about 720*l.*, and the plaintiffs therefore asked for dissolution of the partnership and the appointment of a receiver. The capital of the partnership was 1,000*l.* subscribed by Jewell and 1,980*l.* subscribed by the Hanburys. Wallas never had any capital, and it was not provided that he should bring any in. In the event of any partner drawing more than 250*l.* a year, the excess was to be debited in the following year.

Mr. Chitty, on behalf of the defendant Wallas, was prepared to give an undertaking not to draw more than the sum he was entitled to under the articles, but he resisted the order not to be allowed to draw until the amount overdrawn was made good. When this matter came before the court on the last occasion Mr. Alexander Young moved on behalf of the plaintiff for a receiver, and Mr. Terrell resisted that on the ground that the appointment of a receiver would put a stop to the partnership and act as a dissolution. He (Mr. Chitty) contended that what Mr. Terrell was now seeking would have the same effect. It was unreasonable to require Wallas to carry on the business with Jewell and yet not be allowed to draw until the over-draft was made good.

Mr. Justice North pointed out that Wallas had been paid in advance for doing that.

Mr. Chitty said that a receiver being applied for, his client consented to an immediate dissolution of the partnership and the appointment of a receiver. Mr. Terrell resisted that. He (Mr. Chitty) submitted that his friend had shown a clear case of dissolution, and he asked the court to say that the partners could not continue in business for three years where one was not entitled to draw; the strain between the four partners had become unbearable. Wallas had overdrawn because of the expense of changing his house, and as the business could not be carried on without him he must have the means of subsistence.

Mr. Justice North said there was nothing to show that Wallas was without the means of subsistence.

Mr. Alexander Young, on behalf of the two Hanburys, who owned one half of the business, said that it was essential that the two defendants should both be present to carry on the business, and his clients, being fearful lest Wallas should be driven out, were prepared to leave 720*l.* out of their 2,000*l.* or 3,000*l.* profits in the business to answer any liability by Mr. Wallas to Mr. Jewell.

All parties consenting to this,

It was agreed, by consent, that Mr. Young's client should transfer a round sum of 700*l.* (which should no longer continue to bear interest) out of their profits so as to make good the deficit of Wallas.

Mr. Justice North accordingly accepted Wallas's undertaking not to draw out any further sum in excess of the

profits he was entitled to, and made no order on the motion except that the costs of all parties should be costs in the action.

#### THE "CHERRY BLOSSOM" TRADE-MARK.

IN the Chancery Division of the High Court on Friday, January 23, before Mr. Justice Stirling, the case of Gosnell & Co. v. Crossley was disposed of. The plaintiffs are the proprietors of the well-known "Cherry Blossom" trade-mark; and the defendants, who carry on business at Liverpool, were about to use the trade-mark on soap manufactured at their place of business, being unaware that the plaintiffs had the exclusive right to that trade mark for soaps as well as for perfumes. An action was instituted for perpetual injunction, and this was a motion for interim injunction pending the trial of the action.

Mr. I. Davis, for the plaintiffs, now stated that the parties had come to terms, under which the defendants would not use the trade-mark "Cherry Blossoms," but would consent to perpetual injunction and pay a sum in name of costs and damages.

His Lordship made an order disposing of the action on the terms agreed between the parties.

#### ALLEGED ADULTERATION OF CREAM OF TARTAR.

AT the Dukinfield Police Court on Thursday, January 15, Lydia Cbarcock, grocer, was summoned for selling cream of tartar which was adulterated with 5 per cent. of sulphate of potash, and was not of the nature and substance demanded. Jesse Reeves, inspector of foods and drugs, of Stockport, stated that on December 9 he went to the defendant's shop and bought a quarter of a pound of cream of tartar. He asked the woman if she had any objection to have it divided. She replied that it did not matter, and he therefore sealed up half of what he had purchased and sent it to the analyst. Mr. Andrew, of the firm of Messrs. Booth & Andrew, represented the defendant and pleaded "Not guilty." He said that he had a very curious defence to make. He might tell them that the cream of tartar which his client sold to the inspector was claimed by the manufacturers as the best make in England, and 500 tons were made of it every year. These manufacturers were Messrs. Middleton, Kirkpatrick & Barr, of London, Newcastle, Manchester, and Glasgow. The analyst said that it was adulterated with 5 per cent. of sulphate of potash. He might say there was no such thing as absolutely pure cream of tartar. Dr. Royle, who was an authority on chemicals, stated that there must be from 2 to 6 per cent. of tartrate of lime in cream of tartar. Cream of tartar could not be 100 per cent. pure. The inspector was asked by the magistrates if he thought it was possible to have cream of tartar 95 per cent. pure. He replied that he did not know. Mr. Andrew informed the bench that Professor Attfield, of the Pharmaceutical Society, ascertained that there should only be 92.10 of pure cream of tartar, whereas, according to the analyst, this contained 95 per cent. The Chairman (Dr. Newton) said that in his early days there was no such thing as pure cream of tartar. It was considered impossible to make it. Mr. Andrew said that he could bring three other analysts by authority on the subject. The bench dismissed the case.

#### HAIR v. GEDDES.

ON Thursday, in the Chancery Division of the High Court of Justice Mr. Justice Kekewich commenced the hearing of the action *Hair v. Geddes*, involving certain rights in respect to an asthmatic hay-fever, and rheumatic cure, the invention of Dr. W. B. Hair, of Cincinnati, U.S.

The case for the plaintiff is that a business in Holborn was carried on by Mr. T. S. Ormsby, as his manager, and after negotiation, arising from Ormsby claiming an interest in the business, a Mr. Stephens was taken into Hair's partnership, the new firm taking rooms on the same floor and building, but next door to Mr. Ormsby. The latter then entering into business relationship with the defendant Geddes, there was sold an Ormsby's asthmatic cure which the plaintiff alleged was supplied by him, and that his books of testimonials had been copied. He seeks for a return of the books, and an injunction to restrain the defendant from using the testimonials, with other relief. The case is not likely to be completed until the middle of next week.

#### BANKRUPTCY REPORTS.

##### *Re* EDWARD WHITE, Bath and Tiverton, Chemist and Druggist.

THE statement of affairs filed in this case shows liabilities to unsecured creditors, 864*l.* 10*s.* 4*d.*; assets, cash at banker's 5*l.*, cash in hand 15*s.*, stock-in-trade 56*l.* 17*s.*, trade fixtures, fittings, &c., 41*l.* 6*s.*, furniture 61*l.* 7*s.*, reversionary interest in house at Birmingham 80*l.*, book debts 13*l.* 9*s.* 11*d.*; total 258*l.* 14*s.* 11*d.*. Deduct preferential creditors for rent, rates, taxes, wages, &c., 22*l.* 19*s.* 8*d.*, and preferential claim for sheriff's charges; total 26*l.* 2*s.* 8*d.*, leaving the net assets at 232*l.* 12*s.* 3*d.*, and deficiency of 631*l.* 18*s.* 1*d.*

The Official Receiver observes:—"This debtor commenced business three years ago with a borrowed capital of 300*l.*, since increased to 500*l.*. This now ranks for dividend with the other creditors. The other liabilities are for comparatively small amounts—the largest for 25*l.*. The books kept were a day book, cash book, and ledger, but they do not contain a full account of receipts and payments, and the debtor does not appear to have taken steps at any time to ascertain his position." The principal creditors are:—

	£	s.	d.
Baiss Bros. & Co., druggists, 4 Jewry Street, E.C.	17	0	0
Barclay & Sons, 95 Farringdon Street .. ..	5	15	0
Bourne, Johnson & Latimer, Fairoval Street, E.C.	15	10	6
Clements & Co., Bristol .. ..	25	13	4
Cox. — Bath .. ..	17	17	6
Crook & Abraham, chemists, Birmingham ..	12	1	5
Grossmith & Son, Newcastle Street, W.C. ..	5	5	2
Orrock, R., Hackney Wick, E. .. ..	25	0	0
Payton & Co., Tower Hill .. ..	6	0	0
Scott & Sons, Bath .. ..	23	12	0
Southall Bros. & Barclay, Birmingham ..	6	15	5
Sutton & Co., 76 Chiswell Street, E.C. ..	19	2	10
Tidman & Son, Wilson Street, Finsbury ..	9	11	6
White, Mrs., Bath .. ..	15	0	0
White, Mrs., Birmingham .. ..	550	0	0
Wyleys & Co., Coventry .. ..	7	1	1

At the Bristol Bankruptcy Court on January 21, the Official Receiver reported to the court that the debtor had submitted an offer to pay 7*s.* 6*d.* in the pound within twenty-one days of the order of the court. The Official Receiver reported that the offer was, in his opinion, reasonable, and one that it would be to the interest of the creditors to accept. An independent valuation of the assets taken for him confirmed this view.

##### *Re* JULIUS BLUMENTHAL, 2 Whittington Avenue, E.C., Merchant.

THE adjourned first meeting of creditors under this failure was held last Tuesday, at the London Bankruptcy Buildings, before Mr. G. Wreford, Senior Official Receiver.

The chairman, having called over the proofs, announced that the business of the meeting was to consider a proposal which had been lodged on behalf of the debtor providing for the payment of a composition of 7*s.* 6*d.* in the pound. It would be remembered that the accounts filed showed a total indebtedness of 33,132*l.*, of which 16,740*l.* 13*s.* 4*d.* was expected to rank against assets valued at 3,926*l.* 0*s.* 5*d.*. Upon those figures he would be able to report to the court that a composition of 7*s.* 6*d.* was reasonable, and calculated to benefit the general body of creditors.

Mr. Horace Barrett again attended for the debtor. He reminded the meeting that, although upon the last occasion an offer of 7*s.* 6*d.* in the pound had been suggested, he had intimated that the debtor would not be able to pay it upon the whole of the debts, as there were not sufficient assets to provide the required amount. Since that meeting, however, two of the creditors had agreed to withdraw their claims, and four others had made a considerable reduction. By those means the debtor was able to pay the composition which was now offered. The creditors who altogether withdrew their claims were the executors of the late Mr. Marant (3,000*l.*) and Messrs. Nelke, Phillips & Co. (457*l.* 7*s.* 8*d.*). With regard to the reductions, Messrs. Hardy, Northam & Co. would only claim 685*l.*, instead of 1,010*l.* 6*s.* 11*d.*, as heretofore; Mr. Carl Meyer, 1,295*l.* 11*s.* 3*d.* instead of

1904*l.* 6*s.* 10*d.*; Messrs. S. Figgis & Co, 289*l.* 2*s.* 7*d.* instead of 431*l.* 12*s.* 10*d.*; and Mr. John Sugden, 135*l.* instead of 202*l.* 8*s.* 4*d.*

There was no discussion, and a resolution to entertain the proposal was declared to be carried unanimously. Mr. Barrett said the amount would be lodged with the Official Receiver previous to the application being made for the court's approval of the scheme.

On the following day the debtor attended before Mr. Registrar Giffard for the hearing of his public examination.

Mr. Egerton Grey attended from the Official Receiver's department, and Mr. H. Barrett for the debtor.

Replying to Mr. Grey, the debtor said he came to England in 1869 and joined his brother in business as a commission merchant in raw produce. They acted as agents for other firms, and also bought and sold goods on their own account. The partnership was dissolved in 1874. Witness took over the assets and liabilities of the firm, and his brother went out without either paying or receiving anything. A balance-sheet prepared at that time showed sufficient assets to cover the outstanding liabilities. Subsequently witness was in difficulties, and a friend, Mr. Marcus, came forward and paid the creditors in full. The liabilities then amounted to between 2,000*l.* and 2,500*l.* Upon the death of Mr. Marcus witness found that under the will he was practically freed from the debt, as he was only to repay it when he could do so without impoverishing himself. A later balance-sheet, made in 1879, showed a surplus of 760*l.* The business was continued up to the failure, and had been a profitable one. The present deficiency was caused by the recent financial crisis in the City. Unfortunately, witness was induced to speculate upon the Stock Exchange, although that was a practice he had strongly condemned in others. About June, 1890, he opened an account in American rails, but when the crisis came he gave instructions for the account to be closed, having then made a loss of over 5,800*l.*

Questioned as to the commodities dealt in, witness said they were chiefly raw materials, and included citric acid, isinglass, all sorts of drugs, &c., &c. He also dealt largely in sugar and pepper. A large sum of money was lost over the citric acid transactions. Having at one time some spare capital, he bought some gold-mining shares for an investment, but it resulted in a loss of about 1,400*l.* He had deposited goods with Messrs. Hardy, Nathan & Co. as security for advances. A parcel of pepper, valued at 435*l.*, had been deposited with that firm. The goods deposited with other firms in that manner were generally stock that he had on hand, and that had been purchased and paid for in the ordinary course of business. Some goods deposited with Messrs. Lewis & Peat were, however, an exception to the general rule.

By Mr. Barrett: He was certain that the citric acid transaction was in the ordinary course of business. There was no foundation whatever for the suggestion that it was a speculative transaction. The citric acid had since increased in value. His business was what was termed a regular Mincing Lane business, and was chiefly done through brokers in the sale-rooms.

The examination was ordered to be concluded.

## Obituary.

DREW.—On January 21, Jane Millicent, the beloved and devoted wife of Beriah Drew, chemist and druggist, of Blackman Street, Southwark, London.

FOURAKER.—On January 28, Mr. T. E. Fouraker, chemist and druggist, South Street, Exeter. Aged 55.

REACTION FOR HYDROGEN PEROXIDE.—When a solution of titanous acid is added to liquid containing hydrogen peroxide, a yellow coloration is developed, which is sufficiently marked to admit of its being visible by gaslight. It appears to be characteristic of hydrogen peroxide, none of the ordinary oxidants giving it, thus ranking with the well-known chromic-acid test, which it excels in delicacy and persistency. Dr. Richardson recently communicated these facts to the Chemical Society.

## Trade Notes.

MESSRS. C. W. LUCAS & CO. and GEORGE ALLEN, proprietors of Lucas's "Evictor" soap, have removed from 51 to 69 Milton Street.

MR. F. FOSTER, of Scarborough, figures in this issue the "Crown" compressing machine, which we have seen at work, and which is reported to be satisfactory.

PERSONS thinking of insuring their lives will do well to refer to the quotations from tables published as an advertisement by the Standard Life Assurance Company.

MESSRS. KILNER BROS., of King's Cross, have just published a new illustrated price-list of the turned-wood and other boxes manufactured by E. B. Estes & Sons, New York, for which they are the sole English agents.

MESSRS. SEABURY & JOHNSON having reduced their price for Seabury's ready-made linseed-poultice, ask us to state that they will make a proportionate allowance on account of any which their customers have in stock.

MESSRS. HAMILTON & CO., of the Sovereign Chemical Works, Wandsworth, have removed their offices to, and not from, 17 and 19 High Street, as we stated last week. The building now occupied is known as St. George's Hall.

MESSRS. MAY, ROBERTS & CO., of 9 Cleikenwell Road, have just issued a new edition of their price list of druggists' sundries and patent medicines. This firm conduct their business without the aid of travellers, and claim to give the saving thus effected to their customers.

UP TO DATE.—Chemists who want some bright literature for distribution should read the advertisements of the St. Jacob's Oil Company. The interesting portraits of the saint and of various young ladies which decorate these pages would doubtless attract readers without this reminder.

MESSRS. W. B. FORDHAM & SONS (LIMITED) have published on a sheet illustrations of the various uses to which they are now putting their patent unbreakable steel-pulp ware. These include show bowls, advertising trays for mineral-water makers, sponge dishes, and all sorts of basins, dishes, and plates.

JEYES' SANITARY COMPOUNDS COMPANY (LIMITED) are expressing themselves as highly pleased with the results they are getting in their creolin business. They have shown us a bundle of over 100 letters received from medical men in the course of the past month; and they tell us that the growing popularity of creolin in surgery is making the sanitary fluids go.

MESSRS. H. GILBERTSON & SON are preparing, and will have ready in a few days, a new illustrated price-list of their glassware, druggists' sundries, &c. The firm have sent us the first proof-copy of the price-list, which, by the way, is to be quarterly. It does them great credit, being well printed, and the descriptive-list proper is prefaced by sixteen pages of readable literary matter.

MESSRS. SNOWDON, SONS & CO., of Stepney, have sent us samples of their petroleum jelly, which compare well with other brands as regards quality, while the manufacturers declare that they cannot be beaten in the matter of price. Snowdon's petroleum jelly is obtainable either in 1-lb. tins or in larger bulk. It is manufactured in three distinct colours—white, red, and yellow; and, when in tins, the packages bear the colour of the material which they contain.

MESSRS. F. NEWBERRY & SON send us a proof copy of their new catalogue of proprietary medicines and druggists' sundries. A great deal of care is taken in this catalogue to group the goods quoted in such a manner as to be easy for reference, so that, under "Capsules," for instance, the reader can see all the makers, while under the maker's name he can see all the articles sold under that name. As a sign of the times worth noting, we observe that Count Mattei gets nearly a page for the enumeration of his remedies.

MESSRS. OSCAR ANDREAE & Co. have submitted to us samples of nitrate of silver and chlorido of gold manufactured by the Deutsche Gold und Silber Scheide Anstalt, for which they are agents in this country. Both salts we find remarkably pure, the nitrate of silver being equal to 99.9 per cent. of real  $\text{AgNO}_3$ , and in clear and well-defined crystals. The chloride of gold is in cylindrical tubes, each containing 15 grains of the salt. It is free from occluded water and combined sodium chloride. The purity of this salt commends it to those who have business in photographic chemicals. Messrs. Andreae, we understand, were the first to introduce nitrate of silver of foreign manufacture on the English markets, and, although they have only lately commenced to push it, they express themselves as well satisfied with its success in this country. The Deutsche Gold und Silber Scheide Anstalt have considerable proprietary interests in the silver mines of Mazarron, and in the silver and lead works at Hoboken, near Antwerp, in Belgium.

### Personalities.

MR. G. T. STARKEY, chemist, Cobourg Street, Plymouth was last week presented with a testimonial on his retirement from the volunteer force.

SIR FREDERICK ABEL is about to retire from his various Government appointments in order to devote his energies entirely to the work of the Imperial Institute.

THE paper on "Acarus Lini," read to the Chemists' Assistants' Association, and credited in our report to "Mr. Davies," was contributed by Mr. Frederick Davis, of 86 Newington Causeway.

MR. JOHN SUTTAR has been appointed dispenser to the guardians of St. Matthew, Bethnal Green, and will shortly vacate his position as dispenser and assistant-secretary to the Queen Adelaide Dispensary.

MR. R. CHIPPERFIELD, J.P., chairman of the Southampton Endowed Schools Governors, who for many years carried on business as a chemist and druggist in Southampton, has given a second donation of 500*l.* for the purpose of establishing eight Chipperfield scholarships in Taunton's schools.

MR. G. B. CROCKER sends us the following list of business changes effected through his agency:—Mr. F. A. Cairns, from Messrs. Bell & Co., Oxford Street, London, has bought Mr. Toone's old-established business at New Broad Street, Bath; Mr. P. Griffith, of High Street, Huntingdon, has disposed of his business to Mr. J. W. Beck, of Longdale Tebay, Westmoreland; Mr. Lenfestey, of the Market Place, Faversham, Kent, has sold his business at that address to Mr. Barlow, of Bassingham, Notts; Mr. Jacks, of 31 The Grove, Ealing, W., has also disposed of his business to Mr. J. C. Watt, late of South Woodford, Essex; Mr. Thompson, of High Street, Knaresborough, Yorkshire, has disposed of his business at that address to Mr. C. B. Southwell, formerly with Messrs. Squire & Co., Oxford Street, London. In this case Messrs. Bleasdale & Co., of York, acted for the vendor, and Mr. G. B. Crocker for the purchaser. Mr. Atkins, of Powis Street, Woolwich, has, after fifty years of successful occupancy, disposed of his business to Mr. J. Andrews, formerly of Croydon. This transfer was conducted by Mr. Crocker.

### H. BRONNLEY & Co.,

Who have soap-making works at Verulam Street, Holborn, have struck out a line which is useful to the trade, and ought, consequently, to be profitable to themselves. They are manufacturing what they call "private brands" of toilet soap for washing and for tooth-soaps. The samples they showed us were variously entitled, and bore the names of well-known and highly reputable pharmaceutical firms. Their soaps, they tell us, are superfatted, and the samples we were shown were, in respect of emollience, fragrance, and moulding, of a very high quality.

### LIVERPOOL CHEMISTS' ASSOCIATION.

THE annual meeting of this association was held at the Royal Institution on Thursday evening, January 29, Dr Charles Symes in the chair.

The Secretary, Mr. J. S. Ward, read the

#### ANNUAL REPORT,

which narrated the action taken by the association in reference to the question of earlier closing. A resolution to close at not later than 9 P.M. (Saturdays excepted) had been agreed to, and the Council reported that, although some who supported the movement had since reverted to the old hours, those who had kept up the early closing had done so with advantage to themselves and their assistants. The special meeting on November 13, which the President of the Pharmaceutical Society attended, and dinner at the Royal Restaurant afterwards, were also mentioned. The Council considered that the result of the Board of Trade inquiry on railway rates, in reference to which the association had taken some steps, was eminently satisfactory—the objections of those who took an active part in opposing the proposed rates and charges of the railways being practically sustained. The Council had, through Mr. Bain, communicated with the Chancellor of the Exchequer upon the increase on spirit duties, explaining that this would be a severe tax upon chemists and druggists, and suggesting an allowance of 6*d.* per gallon (proof spirit) on all spirit used in the manufacture of medicinal preparations. Mr. Goschen, in reply, said he had fully considered the matter, and regretted he could not see his way to comply with the suggestion. The Government proposal that retailers of methylated spirit should not sell less than a reputed quart had been considered. The President communicated with Mr. Whitley, M.P., pointing out the inconvenience which would arise from such a provision, and Mr. Whitley replied that he had seen the Chancellor of the Exchequer, who had promised not to press that clause. It was stated that the Hon. Treasurer had a balance in hand of 25*l.* 16*s.* 5*d.* The association had lost three members by death, eleven new members had joined, and six had resigned or been struck off, leaving the numerical strength at the present time 104. The Council had great pleasure in announcing the re-election of Mr. Charles Symes, Ph.D., as President for the ensuing session. Messrs. M. Conroy, J. S. Ward, J. Bain, E. Davies, J. Woodcock, H. Wyatt, and A. S. Buck retire from the Council by rotation, but were eligible for re-election.

After some other business the PRESIDENT read the following

#### INAUGURAL ADDRESS.

When for the sixth time one begins to consider what shall form the subject of an annual address the natural tendency is to avoid subjects already dealt with, and to get on new lines of thought, to seek for fields and pastures new. In direct proportion to the comprehensiveness of previous efforts will be the difficulty of accomplishing this object, and it will not be surprising, therefore, if I merely ask you to look with me from a somewhat uncommon point of view at a well-worn topic.

Fortunately for me, at the present time British pharmacy is being agitated by political questions of considerable importance, both educational and practical. To those present the practical side will doubtless have the sterner realities, and it may therefore not be so difficult to find matter of interest as would otherwise be the case.

It will be remembered that when Mr. Carteighe was good enough to pay us a visit in the middle of November, when in his speech he referred to clause 6 of the Pharmacy Bill, he said, "We call this the consolidation clause, its object being to consolidate the Pharmaceutical Society."

It occurred to me at the moment that this was a big word to represent a somewhat feeble effort; but that effort being, in my opinion, quite in the right direction, I was led to reflect further on the idea of consolidation, and asked myself—What if the whole trade could become really consolidated?

In these days of the iodine ring, salt union, alkali combination, rubber trust, attempted bottle syndicate, and a

host of other associations for the protection of various trades and combined interests, could not some means be found for bringing nearer together, and in greater harmony, the scattered members of our craft? What those means should be it is of course difficult to define, for it scarcely seems probable that any amount of engineering would bring about a combination of chemists of the character of the concerns which I have mentioned; or that all the tact and energy that could be thrown into the work would result in unity of the whole trade. That "unity is strength," however, no one doubts, and it has become a hackneyed and undisputed proverb; but I am quite sure that in practice we all under-rate its value.

The Pharmaceutical Society has entered on the fiftieth year of its existence, and its own journal has practically told us within the past few weeks (*Pharmaceutical Journal*, December 17, p. 520) that, in everything but benevolence, it has been almost a failure. I should have had some hesitation in saying this on my own authority, and, as a pharmaceutical chemist of nearly thirty years' standing, and who has served ten years on its Council, I must enter a mild sort of protest against this pessimist view of things. At the same time I feel bound to admit that, except in this one particular, it has not accomplished all that its founders expected, or that we have fondly hoped for—it has not consolidated the trade, it has not consolidated itself, and is only now making a feeble effort to do so.

The Trade Association was a well-organised body, capable of accomplishing much good; and at first it made excellent progress, but after ten or twelve years of a precarious existence it passed away, notwithstanding that vigorous efforts on the part of its executive were made to keep it going, and to resuscitate it when it had grown feeble and weak. You all know it was starved out for want of sufficient support at the very small subscription of 5s. per annum. Our own association has existed over forty years, and yet the roll does not contain the names of much more than one-third of the local trade, and of these not more than one-third take an active interest in the proceedings, or attend our meetings. This is by no means encouraging, and, were it not that hope is strong within me, I should scarcely see it possible that anything would be capable of bringing about a state of greater unity and solidity, and more coherence between those who constituted the members of our fraternity.

At the present moment we appear to be influenced by a centrifugal rather than a centripetal force, and the chances of coalescence seem very remote. But just as "the darkest part of the night is that nearest the dawn," so I believe that when things have got to about the worst with us (if that be not so already) signs of a better state of things will present themselves, and I trust we shall be fully prepared to embrace them.

It is this preparedness which chiefly merits our attention at present, for, as is well known, the realisation of an object is often brought about by the preliminary preparations concerning it.

The only organisation of national character which at present exists in this country capable of facilitating progress and ameliorating the hardships and difficulties connected with the exercise of our calling is the Pharmaceutical Society. Which statement is no sooner made than we are met by the well-worn cry, "What does the Society do for us?" To which comes the inevitable response of the President—"What do you expect the Society to do for you unless you join its ranks and contribute to its exchequer?"

Here we have a deadlock; and where, may I ask, are we to look for a solution of the difficulty?

Well, gentlemen, no society, be it ever so powerful, can provide business capability, tact, and energy for a man; and these are essentials for a successful career. They are qualities, he it noted, which differ materially from those known as shrewdness and smartness, and which are closely related to selfishness and even dishonesty.

But the Society can do much in the way of furthering the general interests of all connected with the trade, and it is here that I cannot endorse its action. I have been told again and again that the "outsiders," as they are designated, have no part or lot with the members who are within; that, as they do not contribute to the Society, they have no right to expect consideration or to derive advantages from it. This, I say, is a narrow policy, and dwarfs the

general progress. We have already seen that the Benevolent Fund is the special branch of the Society which has been eminently successful—a noble institution administered on the broad and large-hearted principle that the widows or orphans of those outside receive the same consideration as those within, so long as there is equal need and sufficient means. There is, therefore, no excuse for any practitioner of pharmacy not contributing a small or large amount as his means may allow to this comprehensive and excellent fund.

Now let the Society attempt the administration of its general affairs on similarly broad lines, and with the same generous hand, and I cannot but believe it would soon command the sympathy of a large portion of those who now stand aloof from it. The President's campaign would no doubt assist materially in this way, were it not for the fact that its chief object appears to be to show that the Society is right and everybody else wrong. Even so it has done some little good, which goes to prove that those outside the Society are disposed to listen to any reasonable proposals. I believe if they would to a larger extent join the Society and take an active interest in its constitution and proceedings we should find real progress made in the direction of the consummation so much to be desired. We should then have a Society which would identify itself not only with education and benevolence (which are both exceedingly good in their way), but with the important business interests of the majority of the trade; an organisation not spending its energy and its thousands of pounds in endeavouring to gain prestige and a position as a learned society (which are also good if they are not gained at too great a cost and with the neglect of important duties), but in protecting our legal titles, and as far as possible curtailing the power of the enemies and parasites which are sapping the foundation of the legitimate trade; a research laboratory, not merely devoted to experimental work, which may be good as mental exercise, or convenient to bring before the members of a purely scientific society, but almost useless to the average pharmacist, who has to find the means to support it. We should soon have a real improvement in our business status, and should not merely be invited as an act of courtesy to offer suggestions for, and occupy an insignificant position in, the production of the Pharmacopœia; but we should (as in all other civilised countries) have our recognised position as members of the Pharmacopœia Committee—a totally different position from that concerning which so many complimentary remarks have been made of late. What I claim, what every true friend of pharmacy must claim, is the principle that we share with the medical profession equal authority, responsibility, and credit or discredit in the production of the book which is to be our mutual guide. For many years the Society creditably maintained this position, and on one occasion petitions were sent to the local secretaries for signatures of both medical men and chemists, in support of it. On all occasions when opportunity presented itself efforts were put forward in the same direction, and I am at a loss to know what has since occurred to cause the abandonment of so reasonable a claim or to justify the Council in bartering this "our birth-right for a mess of pottage," as has recently been the case. Add to this the abandonment of our claim to business title, already referred to, and it will be seen that, if anything worth having is to be saved, those who are concerned should rally round the Society and use their influence in staying further retrograde steps.

I am afraid that it will appear as though this short address had been given with the intention of having a grumble all round, but such has not been my object. Everyone seems dissatisfied with our position and progress; few, if any, suggest a remedy. As a pharmacist and friend of the Society, having at the same time sympathy with the whole trade, I have ventured to suggest that we should leave the circuitous methods of diplomacy and the narrow system of administration that have hitherto been adopted, that we should fairly and openly face the position, and put our shoulders to the work of broader and better organisation.

B.P. ADDITIONS.—The first edition of 5,000 copies of the Additions is exhausted, and for that reason we have been unable to fill orders for it this week. We expect to have a supply of the reprints at the beginning of next week.

## BRIGHTON ASSOCIATION OF PHARMACY.

ON Thursday of this week Mr. Carteighe, the President of the Pharmaceutical Society, in pursuance of his campaign in support of the Pharmacy Acts Amendment Bill, attended a Conference at the Royal Pavilion, Brighton, at the invitation of the local Association of Pharmacy. The President was entertained at dinner by Mr. Marshall Leigh, the local hon. secretary and member of the Pharmaceutical Council, and a number of chemists and druggists of the town were also present. Mr. Marshall Leigh presided, and at the Conference, which followed immediately afterwards, the presidential chair was taken by Mr. W. D. Savage, J.P., the esteemed president of the local association, who was supported by the Mayor of Brighton (Mr. Alderman Soper), Mr. Alderman W. H. Cox, J.P. (an old local chemist and a former Mayor of the town), and Mr. Marshall Leigh.

A few complimentary speeches followed the dinner.

The MAYOR, in responding to the toast of his health, said if his presence had conferred upon their body any honour, he should feel it a great pleasure to have been amongst them as the representative of Brighton. He was also pleased to see presiding over the Brighton Association a gentleman highly respected in Brighton, and to recognise in Mr. Savage a thorough magistrate, and one of the very first members of the Brighton Town Council.

The CHAIRMAN, in proposing the health of the President of the Pharmaceutical Society, expressed his admiration of Mr. Carteighe as a man, and his appreciation of his services on behalf of the Pharmaceutical Society. The speaker's first knowledge of Mr. Carteighe was when he was a student, and he was then the "bogey man" of his dreams, but since then he had got to know Mr. Carteighe better, and to appreciate and honour him. No one could express the services he had rendered to the Society and to the trade throughout the whole country. It was just that as the Pharmaceutical Society was held in and deserved the estimation of medical men and others in the country that the craft should be respected by the public, and Mr. Carteighe had done more than most to bring about this result. Among many other of his labours he had succeeded in establishing a Research Laboratory, which was of great value to their trade. The new examination-rooms were also a monument to his energy and industry. He spoke of Mr. Carteighe's recent tour in England, Wales, and Scotland. All over the kingdom he had been discussing the Pharmacy Bill, and recently with the hard-headed people of the last-mentioned country. The purpose of this Pharmacy Bill aimed to increase the status of chemists. Mr. Carteighe had been most successful in his tour. He thought many persons would begin to see that the Society was beginning to do a great deal for them, and would thus be induced to become members. He trusted that Mr. Carteighe's hopes in regard to the trade, and of raising the status of the whole mass of the craft would be realised. (Applause.)

Mr. CARTEIGHE, in responding to the toast, said, with regard to the observations of the chairman, the object they had in view was to make the corporate body as potent for good as possible, and to make every individual member of that body as powerful in himself as possible. Mere corporate capacity was not sufficient. There must be individual energy, but the former was intended to assist and encourage every member. It was desirable that they should be associated more closely all over the country. It was important for their welfare in more ways than one that not only they as pharmacists, but that every branch of the trade, should be associated, and that their requirements should be brought before the Legislature by the united efforts of the craft. (Applause.)

The Conference then followed.

Mr. SAVAGE, having taken the chair, explained that the object of Mr. Carteighe's visit to Brighton was to explain to them the provisions of the new Pharmacy Acts Amendment Bill, while any question arising out of that explanation he was sure Mr. Carteighe would be ready to answer. Of the value of Mr. Carteighe's efforts very few were aware. He (the speaker) knew well the anxiety Mr. Carteighe had manifested for the benefit of the Pharmaceutical Society, and on behalf of pharmacy in every part of the kingdom.

He trusted the Society would eventually become equal to the universities and return a member to Parliament, and that member be Mr. Michael Carteighe. When that came about, he believed that with regard to pharmaceutical matters they would then have "Home Rule." (Laughter and applause.) He then proposed the following resolution:—

That this meeting approves of the Pharmacy Acts Amendment Bill proposed by the Council of the Pharmaceutical Society, and accords the measure its hearty support.

Mr. CARTEIGHE then addressed the company. He said he was conscious that everyone in the room knew what was contained in the Bill, and consequently he would abstain from inflicting upon them a long speech, and simply run through what the Bill was intended to do. They were living in days when every man's hand was against them. He believed to a large extent that every well-equipped pharmacist was able to fight his own battle, but at the same time there were matters of legislation required respecting which individuals could not bring the necessary power to bear, like a large and united body. Their influence at present was powerful enough to prevent any unjust legislation being inflicted upon them; but they desired to promote legislation, and it was appalling what power was required to force a measure through the two Houses of Parliament. However, it was useless for them to grumble. They must face the position, and see what they could do. He put it to them whether it would not be to the benefit of outside atoms to come in and join them as a body, and so give the strength that was required to obtain the legislation they wanted. He then proceeded to indicate and to explain in order the points contained in the several clauses of the Bill.

The resolution which had been moved from the chair was then seconded by Mr. HISTED, and carried unanimously.

A vote of thanks was passed to the chairman, and a similar compliment was paid to Mr. Marshall Leigh, and with these votes the Conference proceedings ended. A reception by the Mayor followed, and this merged into a ball, which was proceeding with spirit when this report was despatched.

It may be mentioned that at the close of the Conference Mr. Nosworthy presented an illuminated address to Mr. Carteighe on behalf of the Junior Pharmaceutical Association of Brighton.

## TRADE-MARKS APPLIED FOR.

THE *Trade Marks Journal* publishes the following notice:—"Any person who has good grounds of objection to the registration of any of the following marks may, within one month of the date of this journal, give notice in duplicate, at the Patent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1890, of opposition to such registration." All communications to be addressed to H. Reader Lusk Esq., Comptroller General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

(From the "*Trade Marks Journal*," January 28, 1891.)

- "GRAY'S RESTORATIVE MIXTURE," and signature; for a cattle medicine. By Charles Gray, Kibworth, Leicester. 152,112.
- "TUM'S"; for a medicinal oil for human use. By D. McLaren, 35 Bread Street, Edinburgh. 99,736.
- "KAMAMÉ" and "KAMAMÉ PILLS"; for a medicine and pills for human use. By W. E. Talley, 30 Acre Lane, Brixton, S.W. 151,218, 151,221.
- "HORN'S LIQUID HAIR SOLVENT," and signature; for a preparation for the hair. By O. E. Horn, 38 Elm Grove, Newport, Isle of Wight. 152,186.
- "ST. POELTEN LOTION," with picture of a monk's head; for a lotion for toilet use. By A. E. MacLachlan, 19 Chesham Street, S.W. 152,545.



THIS irrepressible member of our editorial staff offers in the above a sample of the area of his peregrinations. The streets of London are not paved with gold, but he manages to pick up as he goes along facts and fancies, which are presented in what follows, and are capable of being converted by those who carefully study his reports into improved returns. And that is the first step towards wealth.

#### CINDERELLA LAMP.

Mr. G. V. de Luca, of Long Lane, Aldersgate Street, has a pretty novelty, which is selling freely through all the sundries houses. It is called the "Cinderella Pocket Lamp," and is shown in the accompanying engraving. Filled with kerosene oil, it will give a good light for an hour, and is a very useful companion in a corner seat on a railway journey, resting on the window-ledge when the company's illumination is of the standard familiar to travellers on our Southern lines. A

friend tells us it burned brightly all the way from Brighton to London. That was by express.



#### BURROUGHS, WELLCOME & Co.

"Anything new?" asked the traveller, as he dropped down on the comfortable settee in the Snow Hill Buildings. "Plenty of new business," was Mr. Wellcome's smiling response: "we have had a larger increase in the volume of work this past quarter than in any period of the history of our business. Your diary has done that, eh?" "I hope so; and I must congratulate you on the splendid way in which you came out in the competition. Here you seem like THE CHEMIST AND DRUGGIST on a publishing day—much pressed for space." "Ah! we are getting over that difficulty; we have commenced to take in a part of the premises adjoining. Come and see." Our traveller constituted himself an inspector of works for the nonce, and examined the new first floor, a spacious L-shaped apartment, which is to be used as a lady-clerks' office. The firm have a large staff in this department, all of them young ladies of good education, and most of them shorthand writers.

For their comfort a tea and retiring room is being fitted up on this floor. The lease of the third and fourth floors having also fallen in, workmen are also busy in these parts fitting up. Most of the third floor is being made into an extension of the present store-room, but several smaller apartments are adapted to special purposes, such as an experimental laboratory, a poison-room, and a medicine-chest room. The fourth floor is mainly to be devoted to the printing department, which at present is very much cramped. With the additional space which is provided Messrs. Burroughs, Wellcome & Co. will be able to put down a lot more composing frames and printing machines, and they will have ample room for storage. As our man wended his way down the spiral staircase it struck him again with renewed force that these American pharmacists "have come to stay," and pharmacists the wide world over appear to be of the same way of thinking, judging from the heehive activity which one

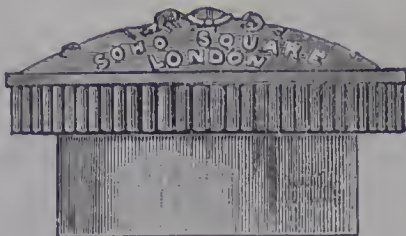


and Kepler solution of malt-extract in cod-liver oil. We notice that the firm figure as No. 1 in a series of "Successful Businesses," the description of which has been commenced in Mr. Stuart Cumberland's *Mirror*.

#### STIPENDUM.

The new covered boxes which our traveller mentioned in his last notes having made rapid progress in popularity within the month, he thought it worth while to call at the Stipendum Manufacturing Company's premises at Lamb's Conduit Street to see the articles made. In addition to boxes, the stipendum is being used to a large extent in making tops for corks and hungs, and screw-tops for pomade-bottles. It does very well for that, and it is marvellous how quickly the leading firms in the trade have taken up the article. The process by which the different articles are made is very simple, heat and strong pressure being all that is necessary, and as the material for each lid, box, or top is weighed, there is absolute uniformity in all articles of the same kind. We notice that since our last note Messrs. Kingzett and Harland, the well-known chemists, have testified

to our statement that the material is not attacked by such things as citrine ointment. In a short time there will be



considerable variety in the colour of the boxes, especially in the direction of variegation—malachite, coral, granite, and the like coming in for those intended for toilet purposes. The Company are also devising a citrate measure, which will be the top of the stopper.

#### SEABURY & JOHNSON

are seldom without something new, and on calling upon them our representative was rewarded by several items. A very useful novelty is their rubber adhesive plaster in strips, packed in 6d. and 1s. tins. Each contains a roll of plaster of about the right width for strapping purposes, and, though occupying a very small space, yet providing sufficient plaster for the accidents average people are likely to be subjected to for years. The peculiarity of this plaster is that although adhesive to the skin without heat, it does not stick to itself in the rolls. The firm are also putting up in screw-capped bottles their 10 per cent. menthol-cotton for tooth-ache and neuralgia at a much cheaper rate than it has been sold at hitherto. Asked whether the demand for menthol-plaster had been increased by the publication of the formula in the Pharmacopœia Additions, Mr. Mason said the preparation there ordered is more of an ointment than a plaster. That which they make they call the "improved" menthol-plaster. After several months' experimenting they find it impossible to make a suitable plaster with more than 10 per cent. of menthol. In reply to inquiries as to the health of the plaster business generally, Mr. Mason said they were at least one hundred gross behind with their orders for what they call "named" goods—i.e. strengthening and belladonna plasters, with the buyer's name and address printed on the back cloths or muslins. They do this for buyers of sufficiently large quantities, and, in Mr. Mason's view, the adoption of that system is the best method of meeting the "cutters." The continued demand for plasters is a problem which Mr. Mason does not attempt to solve. He cannot understand how anyone can ever want a second plaster if he buys one of Seabury & Johnson's once, for it sticks to him, he says, like grim death. In reply to a question as to the progress of the Warrington chloroform business, Mr. Mason said they were now making it in accordance with the requirements as to specific gravity of all the Continental Pharmacopœias.

#### LYNCH & Co.

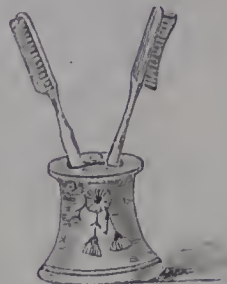
A visit was paid to Messrs. Lynch's showrooms in Aldersgate Street to see whether any novelties had floated to the surface of the often-troubled sea of the druggists' sundries business. The junior partner, Mr. Louis D. Cohen, discussed matters with our emissary.

"Nothing absolutely new," said Mr. Cohen, in reply to the Athenian question which our representative put to him, "but a good many of these things are recent. We have sold a lot of these," he added, as he lifted a pretty little elongated plush bag.

"For tobacco?" queried the innocent one.

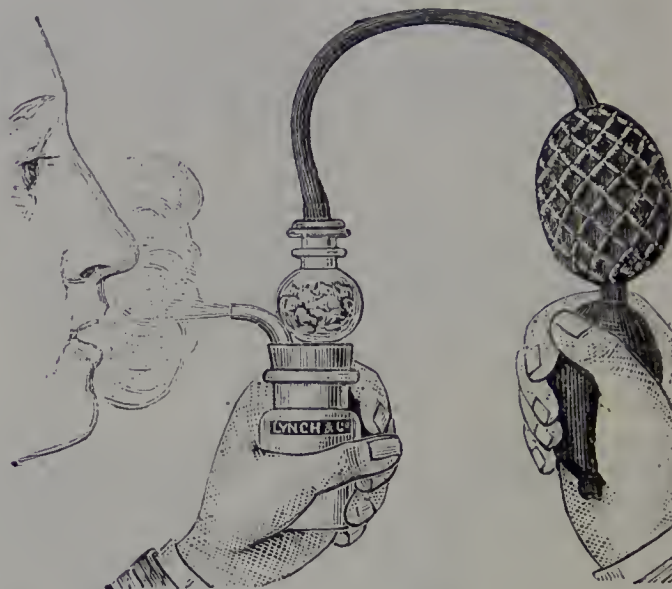
"No; they are smelling-bottle purses. It's the fashion now to carry the smelling-bottle in one of these. They are made in leather as well as in plush. Here are some new patterns in our pump sprays. Favourite things these for presents to ladies. They furnish a beautiful continuous spray."

Some of the new patterns were very pretty. So were some new styles of Ricksecker's perfumes in cut glass bottles daintily packed in tinted boxes. Messrs. Lynch & Co. are the English agents for these. Ricksecker is putting gold or silver leaf in some of his perfumes. It may not make them any sweeter, but it looks pretty in the tinted boxes.



"There's a useful little thing," continued Mr. Cohen. "It's a toilet toothbrush-stand; just a simple little device to keep the toothbrush fresh and sweet." It was a decorated china stand, made in Germany, and would sell at a good profit at 1s.

A pneumatic powder-blower, a cheap substitute for Kabiersky's insufflator, was next shown the emissary. It is in use for the application of iodoform, for spraying powders on to the throat, and for similar purposes. This brought in turn the Perfection Chloride of Ammonium



spray, a useful and easily-worked little apparatus: hydrochloric acid is contained in a bottle, and a sponge saturated with ammonia is fixed in a bulb above the cork. A spray arrangement attached forces the components in combination in a finely vaporised condition.

Messrs. Lynch & Co. have registered a new form of india-rubber hot-water bottle, the peculiarity of which is that the handle supports the funnel mouth in a steady position while it is being filled. In the surgical-instrument department the latest novelty was a celluloid uterine douche. The vessel for containing the water is made entirely of transparent celluloid, tap and all. It is very light, and quite unbreakable. A 6-foot indiarubber tube and a celluloid pipe are attached to it. Celluloid is also largely used now for ordinary syringes of the best make. Some are made with a celluloid cylinder also, as transparent as glass, with the advantage that they cannot be broken.

#### MOSQUERA BEEF MEAL.

Messrs. Burgoyne, Burbidge & Co. are the sole consignees of the products of the Mosquera-Julia Food Company of Detroit. That establishment has just added two more to the long list of beef preparations which are now vying with one another in attracting public favour. Mosquera's beef meal is a peptonised powdered beef, which is specially signalled by its freedom from the bitter taste so often found in peptones. Its actual nutritive value is said to be equal to at least six times its weight of beef. The meat from which it is prepared has been peptonised by the use of a vegetable ferment described as "contained in the plants of *Bromeliaceæ*," the action of which rapidly disintegrates the meat tissues and forms a very pure and permanent peptone, in which the original salts are said to remain almost intact, while the beef fat is emulsified. The preparation is also obtainable in combination with sweetened cocoa under the name of "beef cocoa."

## CRESSWELL BROTHERS.

Five years is not a long time for the establishment of a reputation in any trade. It is an incredibly short time for getting to the very front and taking first place. Last week we announced that Messrs. Cresswell Bros., of 1 and 2 Red Lion Square, W.C., had purchased the business of R. Cresswell & Co., the firm from which they separated five years ago, and the ink of *THE CHEMIST AND DRUGGIST* was scarcely dry when our traveller was chatting with Mr. Ernest J. J. Cresswell about the matter. The firm are to stay where they are, and simply carry what connection was left at No. 32 to their own corner. That corner is a very busy place on any working day of the week, and our traveller was so impressed with all he saw that when he learnt that Mr. Fred. R. Cresswell had just returned from the sponge-fisheries he began to ask all about them. It will be remembered that we reported recently something about a disease which has attacked sponges. That is at the heds off Syria, a district from which the English supplies of sponges are not drawn—or, at least, but few come—and Cresswell Bros. have none at all from the district. Their fishing-beds are not so far east in the Mediterranean. They have their own steamers, their own staff, and when the fishing is at its height one of themselves is on the spot to receive the new produce, discharge liabilities, and see the new stock sent home. The fishing has been good this year, and new heds of sponge have been found off the African coast between Tunis, Tripoli, and Malta.

Of late years the centre of the sponge trade has shifted to London: it used to be at Trieste. Cresswell Bros. claim to have largely influenced this. They now take nearly 40 per cent. of the sponge imports of the United Kingdom, and showed our traveller the official documents which prove their statement, while the figures regarding exports show that their packages and value outward are far in excess of all the rest put together. "And how do you account for that?" asked our traveller. "We don't employ middlemen," Mr. Ernest Cresswell replied. "We do all our business ourselves, here and at the fisheries. We pay for the sponges only the actual cost at the fisheries, and we have to trust no one in the matter, so that we don't require to pay, say, 1,400% for 1,000% worth of sponges, as might be the case. And we pay on the spot too, so saving exchange."

After some more conversation our traveller had a walk through a wilderness of sponge. In one room the men were just finishing the first lot of a contract for 11,000 pieces of Turkey sponge which the firm have made with the India Office. Each piece has to be not less than  $\frac{3}{4}$  oz. in weight, and each has to be weighed. These pieces are cut from the large cnps which one sometimes sees in shop-windows, and which in their natural shape seem useless. Such a collection of clippings there was in that room! "Waste?" asked our man. "Not an atom of waste in this trade," said his guide, Mr. Ernest Cresswell. "Why, look in this room." Trimming was also going on here, a dozen men or so busy at honeycombs, a mountain of finished sponges at one side and an ocean of clippings at their feet. "We can't get enough of these clippings for the people who buy them. Chemists know what they are used for, but few know that sponge clippings are also used in paper-making." "What kind of paper?" "Ah! that's what I would like to know." Then our man was taken from room to room, seeing all sorts of curious things which have been fished up by the sponge-divers, such as Roman amphoras, coral, and many strange forms of sponge—veritable freaks of nature. In one honeycomb-room our traveller was shown a new kind of honeycomb sponge from the Mediterranean. This has a long and soft pile which is very pleasing to touch, and the sponge is a wonderfully durable one. A great many people still want "unbleached sponge," and they think such sponge should be cheaper. This is an erroneous idea. "Unbleached sponge" is treated chemically at the fisheries, and, after drying in the sun, is packed in the cases familiar to every sponge-dealer. After the freight is paid they are really dearer than the home-bleached article: for in the latter case the sponge comes in tightly-compressed bales, the freight of which is comparatively trifling. Mediterranean sponge is in round bales, West Indian in large cubical ones. To give our man an idea of the difference in bulk between the pressed sponge and the other Mr. Cresswell took him down

to a room in the basement full of bales just arrived. "This room," said he, "contains more sponge than you've seen in the whole building, and we have cellars like this extending to the street behind." After a look in at the bleaching and other departments our man returned with Mr. Cresswell to his room, and there had a chat with him about his Australian trip. He spoke highly of the enterprise of Australian pharmacists, and has pleasant recollections of unbounded hospitality. There are few places of business in the world which the young firm have not tapped, and no branch of the trade they do not touch, from the carded sponge to the fine Turkey cups which are so expensive that they are kept in the strong-room along with the business books of the firm. Up till a few years ago such a thing as show-cards for sponges were unheard of, but these enterprising brothers made a new departure in that respect, and provide their customers with attractive cards, which, our man reports, have been greatly appreciated by retailers.

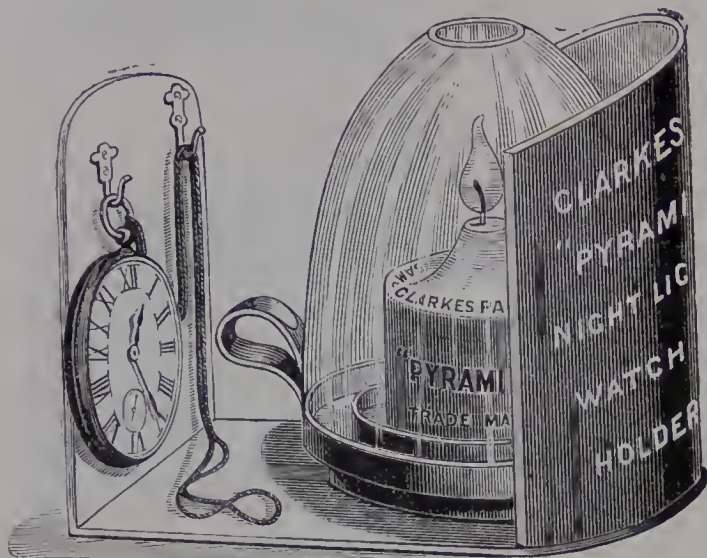
## CLARKE'S LIGHTS.

Some time ago our traveller looked in at the showrooms of Clarke's Pyramid and Fairy Light Company (Limited) at 31 Ely Place, Holborn, and the other day he repeated the visit. The larger showroom has a charming appearance every Tuesday and Friday, when the samples of all the kinds of fairy lamps are aglow, and the artistic colours and dazzling brilliancy of the crystal glasses give the room the appearance of a fairy hall. Those who have the opportunity should look in at Ely Place on one of the show days. There have been enormous developments of the fairy-lamp business since it was started a few years ago. All that art can do to make "the house beautiful" has been done by the company, and the result is an endless variety of patterns. The latest is the floral bowl lamp, which has a shade made of glass



petals fused upon a foundation of the same material, and generally of iridescent colours, so that when the lamp is lighted the effect is much finer than with biscuit-china roses and the like. Our illustration shows the lamp upon a plush stand, which adds to the elegance of its appearance. Some very fine effects are obtained with etched glass shades, the glass of these being in two coloured layers, rose, citron, and blue predominating, with usually a colourless background, so that the designs appear of a colour different from the foundation. There is no part of the house which the company have forgotten to place their lamps. The drawing-room is, of course, the place of all others which has been beautified by the lights; but there are always fresh designs coming out for the dining-table, and our traveller noticed a lot of new centre-pieces, which can be used as épergnes; and there are two and three light "Sociables"

for small tables, made of the delicate Burmese ware decorated with flowers, and with receptacles for fresh flowers. An idea which touched our traveller's inmost soul was the smoker's lamp, a neat affair with a "wee fairy" light in it burning four hours. In spite of the great strides which this branch of the business has taken, the "Pyramid" food-warmers remain the backbone of the trade, and this department is not without new ideas. All druggists are now familiar with the improved shape of the milk-pannikin, which enables most people to fill the feeding-bottle without spilling; but there is an improvement upon that in the shape of an ejector, which is placed upon the pannikin and the nozzle in the hottle. One or two strokes of a piston quickly transfer the milk to the hottle. Night-lamps for the timorous are now in great pro-



fusion. We need only mention the one which is shown in the illustration. We hear that the company have just completed a contract with the Hotel Métropole to place one of these in every bedroom of that large establishment.

#### HOCKIN, WILSON & Co.

It is less than two years since Hockin, Wilson & Co. removed to New Inn Yard, in Tottenham Court Road, and already they are complaining of want of room. Their business is what we might call a sectional one. The drug trade at home is familiar with the different lines which have been energetically pushed at home by the firm, such as menthol cones, surgical instruments, druggists' sundries, and certain pharmaceutical specialities. But when our man called, and had a walk round the premises the other morning, he discovered one or two things that the home trade know nothing about. Here, for instance, was one room solely devoted to making and bottling a seidlitz powder, the blue and white combined in one hottle, which is a favourite speciality in South America. It is put up in 6-oz. flat saline hottles, neatly cased, and wrapped in yellow wrappers, with directions in half-a-dozen languages. That lot sells for half a dollar in Chili just now, and if the war goes on a dollar may not buy it, should the supplies he stopped. Another line, little known at home, but a favourite abroad, is a curry powder put up in  $\frac{1}{2}$ -lb. hottles. It is an old-standing thing with the house, and contrasts with some of the branches of the home trade which are of recent development. For example, the surgical-instrument department is one which has been assiduously cultivated of late years, and one which we have had opportunities of referring to in connection with the British Medical Association Museums. The firm do a large cash trade in this department with medical men, and they are well pleased with the way in which chemists are now promoting friendly relations with medical men by keeping stock of surgical instruments. Our man reports favourably of the variety and quality of the stock which Hockin, Wilson & Co. carry, and wishes specially to mention a catheter-gauge which they are offering. This is a circular disc of nickelled metal

with accurate holes in it for catheters and bougies from No. 1 to No. 18. It should be exceedingly useful, and should help to spread the popularity of the Belfast linen catheters. For some time the firm have been doing good business in photographic lenses, this being the only part of photography in which they carry stock; the lenses are called the "Desideratum," are of French make, and are offered at remarkably low prices. Thus a rapid rectilinear aplanatic lens, suitable for portraits, groups, or instantaneous subjects, and covering a quarter-plate, is priced at 24s., and lenses of more restricted application are put in at a third of that price. The firm are not unaware of the importance of other branches of the photographic business, but their space does not allow



them to add more in the meantime. Our traveller appreciated that fact as he walked over the premises with the manager. There was first the general sundries department, with a laboratory off it where perfumes and other toilet and pharmaceutical specialities are compounded. Below that a basement-floor is sacred to cod-liver oil. On the first-floor machines are constantly at work making compressed pellets. Beside that is a special laboratory devoted to the manufacture of certain compound liquors which the firm have specialised; then there are a seidlitz-powder room, several menthol-cone rooms (manufacturing), and a feeder room, as well as the usual supply of packing and order-filling apartments. The menthol-cone making is interesting and simple. To sum it up in a few lines it is this:—Melt the menthol in a covered vessel on a water-bath; pour into the metal mould without damping the mould in any way; when hard, scrape off the superfluous menthol and press out the cone. Now it is ready to insert in the holder, and that is easily done—viz., by dipping the end into hot water, and pressing the softened end into the holder. This is simple enough, yet the business has become such a big one that only firms such as Hockin, Wilson & Co. can undertake to turn out cones profitably, for, in addition to being the manufacturers of the "Acme" brand, they manufacture for certain sundries houses. Although 1d. menthol cones have become exceedingly popular, there is as large a demand as ever for the more elegant styles, and these are now turned out at about half the price of what they were originally, and, as pure menthol only can be used in the manufacture, there is no suspicion that the quality has deteriorated. As our man was leaving he noticed one of the sectional glass show-mortars which are such a prominent feature in American pharmacies, and on inquiry he learnt that Hockin, Wilson & Co. are the agents for them here. It is surprising that these are so rarely seen in chemists' windows in this country.

#### GUSTAV BOEHM'S SPECIALITIES.

Although the present season is not that in which most novelties in perfumery are placed upon the market, we found at Mr. Boehm's, of 38 Moreland Street, E.C., a little sample collection just packed ready for submission to the firm's customers. Among the most attractive of the goods therein contained was a box of "Parfumerie Rococo," consisting of triple extracts of beautiful odour, to retail at 5s. per box of three  $\frac{1}{2}$ -oz. bottles. The labels are delicately printed in eighteenth-century style, and Mr. Boehm is looking forward to a decided hit with this novelty. Another perfume to which our attention was called was an eau de Cologne bearing an ornamental label somewhat deviating from the conventional type, blended with various odours, such as lily of the valley, heliotrope, or violet, and put up in bottles with sprinkler tops. All the perfumery sold by the firm is imported from the German factory at Offenbach-on-Main, and most of the soaps are also of German manufacture, although the transparent glycerine, Windsor, and sulphur soaps are made in this country. Among the toilet soaps shown us by Mr. Boehm were some very creditable specimens of milled soap, "Jockey Club" at 27s., honey and rose at 23s., and oatmeal at 19s. per gross. The establishment of Mr. Boehm's factory in this country dates from when the duty on spirit-

soaps, which formed one of the specialties of the house, was raised very considerably.

# COUNTER ADJUNCT.

At Messrs. Evans, Lescher & Webb's palatial establishment in Bartholomew Close our town traveller gathered that the firm have every reason to be gratified at the increasing popularity of their "counter adjunct" business. That idea was first carried into existence about eight years ago, its "Leitmotif"—if such a word may be applied to galenical preparations—being to provide the firm's customers with high-class goods bearing the retailers' own names and addresses. The first "counter adjunct" brought out was an effervescing saline. Others quickly followed, some at the initiative of the firm, others at the suggestion of its customers, until the last "Adjunct" catalogue shows no less than 160 distinct classes of preparations, representing over 500 different articles. The opening pages of this catalogue are embellished with two very artistic labels, specimens of a large selection open to the firm's customers.

Mr. Lescher declared himself well satisfied with the increasing sale of Savar's coca wine, a preparation of which



the accompanying illustration represents the style and label. Savar's coca wine was brought out originally as early as 1875, and the firm claim for it that it is the first coca wine ever manufactured. At the time of its first manufacture cocaine was still unknown, and the preparation was then made exclusively of the leaves of the coca plant. Our representative was shown a large bundle of correspondence with the Somerset House people on the subject of the licence-free sale of the wine. That correspondence originated in July, 1876, when the Board of Trade gave it as their opinion that for the sale of "coca wine," as described on the label and circular submitted, no licence was required. Later on in the same year there was a further exchange of correspondence, resulting in the analysis of a sample of the wine by the Government analyst, who reported that he had found it unfit for use as a beverage. Quite recently the firm have decided to push the sale of their coca wine with more vigour than before, and they have to that end standardised it, so as to contain a uniform proportion of  $\frac{1}{2}$  grain of pure alkaloid per fluid ounce of the preparation. This proportion the authorities have declared to be admissible for

free sale, but at the same time they stated that they would not regard a proportion of  $\frac{1}{2}$  grain of the hydrochlorate per fluid ounce a sufficiently high degree of medication. The coca leaves from which the wine is prepared (by the way, the facsimile of a coca twig which adorns the label was copied from a living specimen of the plant) are analysed before manufacture, and the active principle of about 1,000 leaves used in the preparation of one small bottle of the wine, the liquid being subsequently brought up to standard, if necessary, by the addition of hydrochlorate of cocaine. Savar's coca wine is administered by the dessert-spoonful in half a wineglass of water or wine, and in this combination forms a not unpleasant beverage. We inquired of Mr. Webb whether he had heard anything of the alleged large purchases of lime-juice by the Government. He questioned the accuracy of the report, as he had every reason to believe that the Government purchased none but Montserrat juice for the requirements of the navy, but at the same time he thought that the high prices of lemons might easily react upon the value of lime-juice.

# LIBRARY

FALLOWFIELD'S PHOTOGRAPHIC STORES.

We suppose everybody is familiar now with the picture of Lord Randolph preparing to have a snap-shot at the G. O. M.

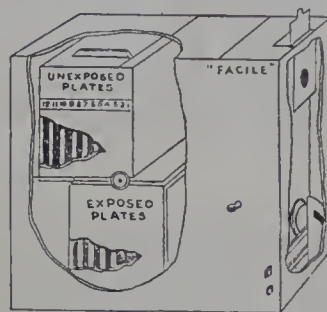
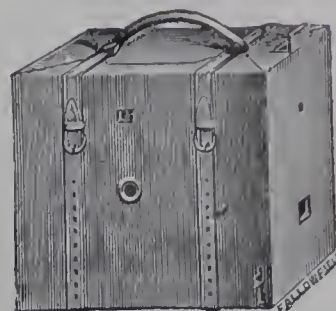
who, Ulster-clad, is coming round the corner with a bundle of books under his arm. It is Fallowfield's

"Facile" hand-camera that Lord Randolph is manipulating, and it looks just like this: a nice brown-paper parcel with a strap round it, upon the top of which one can put a book or anything else to increase the deception. The camera carries twelve dark slides, and its construction will be

understood by an interior view. Here we see the unexposed and exposed plates. The screw at the side carries forward an upper box until a plate comes over a slit, through which it

drops down to the lower compartment. Here it is exactly in focus behind the lens. When the little flap on the top is raised to expose the view-finder the interior shutter is at the same time opened, and now all that has to be done to expose the plate is to push a pin at the bottom right-hand corner, which moves a fan-shaped shutter, part of which, with the slot in it, is shown in the annexed

illustration. This takes the picture, and again the screw is turned, whereby the plate just taken is shifted back and a fresh one takes its place, the number of the plate at the same time being brought to view. The camera takes exceedingly good quarter-plate pictures instantaneously, being fitted with a lens which gives the requisite sharpness and detail. While our man was inspecting the camera he learned from the principal of Fallowfield's that their removal to Charing Cross Road has been very beneficial to their business. They keep everybody's specialties, so that they have a wide connection with provincial chemists who have been wise enough to add photographic requisites to their business.



**MEDICATED SNUFF FOR CONSUMPTION.**—Dr. Williams has an irrepressible critic in a correspondent of the *Hospital Gazette*, who is anxious to know if he has made provision for such cases as the critic's, who writes: "My sternutatory membrane lines a cavity the extent of which will be best described when I tell him that it took forty-five yards of carbolised gauze to stop a hemorrhage which I had recently; and I assure him that with such a remarkable proboscis, capable of holding material for at least three ball-dresses, he will have a grand surface on which to cultivate microbes and watch the effect of his snuff."

**CATAPHORIC MEDICATION** has been investigated by Dr. S. Ehrmann, of Vienna. Professor Wagner first attracted attention to the absorption into the skin of solutions by means of electric currents, by his researches on the cataphoresis of cocaine. Dr. Ehrmann mentions the following curious experiment to show the influence of the electric current:—Take two similar glass vessels, with zinc electrodes at the bottom, and fill with a very weak solution of methyl blue. If an individual places one of his hands in each vessel, then when a constant current of 10 to 20 milliamperes is allowed to pass for five or ten minutes, the hand in the anode vessel becomes covered with blue spots, while the other is not marked. The spots appear most on the back of the hand, where the hair and fatty glands are situated. In the palm and round the nails they do not occur.

## Medical Gleanings.

### URALIUM OR CHLORAL-URETHANE.

SCHMITT AND PARISOT, of Nancy, find that the smallest dose of uralium which is at all effectual in the treatment of insomnia is 15 grains, but doses of 40 grains sometimes fail. Altogether the compound is an uncertain hypnotic, is very disagreeable to take, often disorders the digestion, and sometimes causes vomiting, followed by nausea. It is possible, therefore, that uralium will have to take a back seat.

### COMPOUND TINCTURE OF CINCHONA IN RHEUMATISM.

DR. C. C. P. CLARK, of Oswego, N.Y., tells the *Therapeutic Gazette* of his successes in the treatment of rheumatic fever with compound tincture of cinchona after salicylates had failed. He gave  $\frac{1}{3}$  oz. of the tincture every four hours, and the effect seems to have been marvellous. He adds that he has not found the remedy of value in chronic rheumatism, or in sciatica or any of the other kinds of so-called local rheumatism, but only in that general or constitutional ailment, which, like other fevers and many local inflammations, has at least a strong tendency to a self-limitation, whether of "six weeks" or of some other period. He thinks that phenacetin seems to possess properties much resembling those of cinchona, and that it will prove as serviceable as Huxham's tincture; but this is not based on experience.

### POISONING WITH EASTON'S SYRUP.

WE do not remember having recorded any case of poisoning with Easton's syrup. Such a case is now mentioned in the *Lancet* by Mr. W. B. Caley, L.S.A. A patient took a little more than a tablespoonful, instead of a teaspoonful, of the syrup. Soon after Mr. Caley was sent for, and on arriving found the patient, a man of 29, suffering acutely from strychnine-poisoning. At one time the case looked really serious, but  $\frac{1}{2}$  oz. of potassium bromide brought the man round. "A little more than a tablespoonful" turned out to be 10 drachms, so that the patient had a little over  $\frac{1}{2}$  grain of strychnine. Mr. Caley remarks that the case suggests the unadvisability of dispensing Easton's syrup and similar potent medicines in undiluted form: and also the danger arising from the use of domestic measures of such uncertain and varying capacity as the spoon mentioned. It will also enable dispensers to give a definite reply when they are asked what the result of an overdose of the syrup would be. Its compound nature and the fact that it is a syrup lead some to suppose that a little too much would do no harm. This, obviously, is very erroneous.

### INGROWING TOE-NAIL.

AT a recent meeting of the South-Western branch of the British Medical Association Mr. E. J. Domville (Exeter) read a paper on this subject, in which he advocated bathing the surface of the exuberant granulations with a solution of hydrochlorate of cocaine (grs x. to 5j.). After this the operation of dressing under the nail with wool or lint is quite painless. If the application of the cocaine is repeated every other day for two or three weeks, the effect on the granulations is most marked: the antiseptic properties of the cocaine seem to come into action, the surface of the sore becomes hardened, and the exuberant tissue may be painlessly peeled off; and all this without confining the patient to bed, and even allowing of a certain amount of walking exercise. At a meeting of the Staffordshire branch Mr. A. E. Nevins read a paper on

### OPIUM IN CHRONIC CONSTIPATION.

He said that in all cases of chronic constipation there is a considerable degree of chronic irritation and subacute inflammation of the cæcum and colon and of the surrounding cellular tissues; this condition not infrequently becomes acute, and is then recognised as an attack of typhlitis. The effect of this subacute inflammation is reflexly to arrest peristalsis. When a purgative is administered in such cases peristaltic movements are indeed, the irritation is increased, and after the evacuation of the bowels the gut lies more torpid than before. The administration of *pnlv. ipecac. co.*

*gr. x.* at night, combined with turpentine stupes to the abdomen, and followed in the morning by an enema if necessary, has always resulted, in an experience of a large number of cases of chronic constipation, in a very marked improvement in the patient's condition and a complete evacuation of the bowels. By carefully regulating the diet afterwards, and entirely avoiding purgatives, the constipated habit has been almost invariably cured. The explanation which Mr. Nevins gave of this result was, that the opium gives the irritable gut a period of rest, which enables it to recover its tone, and afterwards act efficiently, while the diaphoretic action of the ipecacuanha, by promoting the secretion from the mucous membrane of the gut, contributes, in an important degree, to the completeness of the evacuation.

### PILOCARPINE FOR DEAFNESS.

SOME time ago we printed an abstract of a paper in which an English aural surgeon recorded the excellent results which he had had in the treatment of cases of deafness by means of subcutaneous injections of pilocarpine. The cases which proved amenable to the remedy were those in which concrection of wax caused the loss of hearing. In such cases, it was argued, pilocarpine would stimulate the secretory organ and thereby induce the softening of the wax. Dr. Adam Politzer, professor of otology at the University of Vienna, now publishes a warning note in the *Lancet* regarding this treatment, showing when the pilocarpine is and is not beneficial. He says the subcutaneous injections are particularly indicated in recent affections of the labyrinth, be they of a syphilitic nature or not. In protracted diseases of the labyrinth the injections must be abandoned if no improvement results after from ten to fifteen injections. The injections are but rarely employed in otitis media acuta, where the cavum tympani contains hardened exudative products, which resist re-absorption; nor, in panotitis gemina diphtheritica, or in other diseases produced by infection. The injections are decidedly contra-indicated in cases of dry sclerotic catarrhs of the middle ear; but injections of several drops of a 2-per-cent. solution of pilocarpine hydrochlorate through the catheter into the tympanic cavity are beneficial in some cases of catarrhs connected with swelling and a slight secretion of the mucous membrane of the middle ear, continued from one to three weeks alternately, with inflations of air.

### TREATMENT OF INFANTILE DIARRHŒA.

IT is generally understood that medical men are somewhat deficient in their knowledge of chemistry. If it were not so, we should, as pharmacists, have much less to complain about in the matter of incompatible prescriptions. But there is another side to the question, the therapeutic side, and we get some idea of the advantage of sound chemical knowledge from a paper which Dr. Arthur P. Luff has recently communicated to the *Lancet* on the anti-fermentative treatment of infantile diarrhœa. Dr. Luff is of the opinion that this diarrhœa is caused by Vaughan's crystalline ptomaine tyrotoxon, which is known to be formed in milk as well as in cheese, and, applying his chemical knowledge to the treatment of the disorder, he came to the conclusion that if the tyrotoxon were rendered inert by precipitation the diarrhœa would stop. Perchloride of mercury is a well-known and successful remedy for diarrhœa; it is also a precipitant of some alkaloids and ptomaines, but it does not precipitate tyrotoxon. Double iodide of mercury and potassium does, however. Accordingly, Dr. Luff used the following mixture in eighty cases:—

Liq. hydrarg. perchlor.	..	..	..	℥ xij.
Potass. iodid.	..	..	..	gr. ʒ
Chloral hydratis	..	..	..	gr. j.
Aque, ad	..	..	..	ʒj.

For a dose.

In all instances diarrhœa was severe, but in 72 cases the treatment sufficed to cure it in two or three days; in five it needed four days, and in no case did it require more than a week of the treatment to effect a cure. Simultaneously care was taken with the dietary. The milk was well boiled, and mixed with three times its volume of barley water. The feeding-bottles were always washed with solution of potassium permanganate, and the old-fashioned fish-shaped feeder was the one which Dr. Luff recommended.

## PHOTOGRAPHIC NOTES.

(Written for THE CHEMIST AND DRUGGIST.)

## RAPID COLLODION PLATES.

Herr Gadlicke has completed a series of experiments, which have resulted in the preparation of a collodion dry-plate, which is of the same rapidity as the ordinary gelatine landscape plate, and shows 16° on Warnerke's sensitometer, and as these plates are shortly to be placed on the English market, we shall hear more about them. Still, it would be a boon to those who still admire the old collodion negatives to be able to obtain a collodion plate with a decent rapidity.

## ALUMINIUM.

This metal is now finding application for mounting lenses and replacing the ordinary brass fittings of cameras, with a considerable saving in weight and greater elegance of appearance. If chemists would but agitate, or raise a demand, no doubt scale and weight manufacturers would soon replace the ever-dirty brass and costly platinum pans and the brass weights, which from cleaning are always liable to become light, by aluminium pans and weights. The objection to aluminium weights would be their large size, but this might be obviated by either making the weights with a core of lead, or else by using aluminium bronze or pure copper with 10 per cent. of aluminium added. This has the colour of Australian gold, is extremely hard, and can be cast, forged, and rolled with the greatest ease, and is much less liable to oxidation. For the beams, pillars, and pans of dispensing-scales, aluminium would be a perfect substitute for the metals now used, as the only things which attack it are hydrochloric acid fumes and caustic potash. The question of price would be, of course, a great consideration, but the following brief table and calculation would show that it would not be out of all reason:—

	Specific gravity	Weight per cubic foot in lbs.	Relative sp. gr. AL=1
Aluminium .. ..	2.56	160	1.000
Steel .. ..	8.0	499	3.125
Copper .. ..	8.6	537	3.359
Brass .. ..	8.27	515	3.232
Silver .. ..	10.47	654	4.090
Gold .. ..	18.41	1,150	7.191

In comparing the price of aluminium with that of other metals the great difference in volume must of course be taken into account, and the easiest way to do this is to multiply the cost of the metals by the figures of the relative specific gravity in the last column. Aluminium is now quoted pure at 15s. per lb., not absolutely pure at 6s. per lb., copper at 6d. per lb., brass at 9d. Thus, taking aluminium at 6s. per lb., copper is 12 times cheaper by weight, but by volume (6d.  $\times$  3.359 = 20.154, price of copper by volume) the difference is only 4; taking brass, the metal of which scale-pans are made, we find that by weight aluminium is 8 times dearer than brass, by volume only  $2\frac{1}{2}$  times dearer, as the price of brass by weight, 9d.  $\times$  3.232 = 29.088d. the price of brass by volume. Of further applications of aluminium for surgical instruments, spatulas, speculums, &c. With the downward tendency of aluminium and upward tendency of silver it might well be used for the latter metal in many cases, as it can be gilded, silvered, polished, etched, drawn into wire, &c., as easily as silver.

## DIRECT POSITIVES IN THE CAMERA.

The only methods hitherto known of producing positives direct in the camera have been by the use of the collodion process either wet or dry, in which the silver is deposited in the allotropic form of a white and not black powder, on thin sheet iron, coated with a black or brown varnish; and it is merely this background which gives one the idea of a positive as the same process on glass gives a thin but distinct negative image. Colonel Waterhouse, of the Surveyor-

General's Office, India, has devised a process of reversal of the image or the preparation of direct positives in the camera. The agents used are phenyl-thio-carbamide, or phenyl-sulpho-urea, and allyl-thio-carbamide or thiosinamine. Colonel Waterhouse has also tried thio-carbamide or sulph-urea, and finds that this also causes reversal of the image. Urea alone seems to have little or no action on the silver salts either way, and alloxan only acts as a restrainer. An important use for this peculiar action of these bodies will be found in copying line subjects for helio-gravure and kindred photo-mechanical processes. Waterhouse suggests giving the plate an ordinary exposure, and flowing over the plate before development a bath of dilute nitric acid, 5 per cent., or solution of bichromate of potash, 3 to 4 per cent., and then washing and developing with the following:—

A.				
Eikonogen .. ..	..	..	..	5 parts
Sodium sulphite ..	..	..	..	10 "
Water .. ..	..	..	..	100 "
B.				
Sodium carbonate ..	..	..	..	8 "
Water .. ..	..	..	..	100 "

One part of A and 1 part of B mixed with 2 parts of water, to which is added .5 to 1 part of 10-per-cent. bromide solution, and 1 part of solution of thio-sinamine, to every 100 parts of mixed developer. No explanation can be given at present of the chemical action of these substances in causing reversal, this being another of those delightfully complex questions so frequently cropping up.

## A NEW PRINTING PROCESS.

MR. SPILLER'S paper read at the British Association, in the chemical section, promises to be not only of great interest to photographers generally, but of enormous value commercially. The basis of the new process is the action of light on a diazo-compound of "primuline," one of the artificial dyes. The chief constituent of "primuline," according to A. G. Green (Journ. Chem. Soc., 1889, p. 227), has the formula



and is obtained by treating the product obtained by heating paratoluidine and sulphur with fuming sulphuric acid. Primuline is the soluble amido-sulphonic acid of this base, and when diazotised *in situ* by a nitrous bath, and then passed into certain phenols and amines, a variety of colours are obtained which, being formed within the fibre, are all "fast from washing," and are termed "ingrain colours." The new printing-process is briefly as follows: A weak solution of primuline of any strength is taken—we have tried .5, 1, 2, 3, 5, and 10 per cent. solutions with equally good results, differing only in depth of tone, but it is as well to make the solution by dissolving about half-an-ounce of salt in a pint of boiling water and adding five grains of primuline—and the linen, calico or silk is immersed in this till sufficiently dyed; it is then washed and diazotised by immersion in a bath of .25 per cent. of sodium nitrite strongly acidified with sulphuric or hydrochloric acid, and the material is again washed and exposed, damp or dried, in the dark, and then exposed under anything which it is desired to reproduce, such as a negative, ferns, leaves, writing, plans, &c., either to the electric light or daylight; the exposure to sunlight being under thirty seconds, or half-an-hour in very dark, cloudy weather. The exposed print may be developed at once or kept in the dark till required. The developer consists of a bath of a phenol or amine, about .25 to .5 per cent., the following colours being obtained according to the developer used:—

Red from an alkaline solution of beta-naphthol.	
Maroon .. ..	beta-naphthol-di-sulphonic acid.
Yellow .. ..	phenol.
Orange .. ..	resorcin.
Brown .. ..	a solution of phenylene diamine hydrochloride.
Purple .. ..	and naphthylamine hydrochloride.

After development the print is thoroughly washed and requires no further fixing, though it is advisable in the case of the purple colour to use a weak solution of tartaric acid as a fixer.

### A VISIT TO MESSRS. EVANS, SONS & CO., LIVERPOOL.

WE never visit Liverpool without finding that our friends Messrs. Evans, Sons & Co., the great wholesale druggists of that city, have added some new territory to the area which they had previously occupied, and this was the case when we called on them a little before last Christmas. In the course of the year they had equipped their new and handsome "tincture-house," as they have happily named their new building in Wood Street, and in this place are now carried on most of their laboratory operations, under the supervision of their chemist, Mr. Michael Conroy, F.C.S. Long lines of stone jars, in each of which 40 gallons of some sort of tincture are macerating; a multitude of copper percolators; a gun-metal hydraulic press, in which the reluctant marc is persuaded by an argument of 180 tons weight to surrender its taste for alcohol—these are the most prominent features on the ground floor of this building which make its title appropriate. One fact we were told which indicates the extent of the operations carried on in that tincture-house—on the spirit used there Her Majesty's Government collect an average of about 4007. per week—say

20,000. A YEAR.

No wonder that one of the members of the firm is a prominent member of the Financial Reform Association, which has its headquarters at Liverpool. On the upper floors of the building we find a large room devoted to the manufacture of the granular

this product to the lowest possible margin, we find that Messrs. Evans consider that nothing commoner than

#### SILVER SIEVES

are good enough for completing the granulation of their citrate. We do not know whether such luxuries are generally adopted by manufacturers. Messrs. Evans, Sons & Co. adopt silver to obviate all risk of metallic contamination. Silver sieves of the size required cost 487. each just now, and even at that price they are not pretty enough to make a show with among the family plate. We now go into the adjoining premises in Fleet Street, and upstairs

#### THE PILL-MILL

reveals itself. Here unceasingly run the machines, all driven by steam-power, massing, piping, rolling, rounding, and coating those little messengers of health, of which, as we discovered last year, the British public's insides require over five millions a day to keep them in order.

In other parts of the Fleet Street premises we note a room specially set apart for the manufacture of Parrish's syrup: spirit of nitre is being drawn off, extracts

are evaporating *in vacuo*, *Fucus vesiculosus* is being dried, and drugs are being ground. The heaviest mill-work is done at these works, the firm grinding all their own powders: and there, too, fluid extracts, which are produced in large quantities, are manufactured. Cascara sagrada is one of these. Six hundred pounds of the holy bark go into the pan for each batch of this tempting luxury.

#### IT WAS IN 1833

that Mr. John Evans first came to Liverpool to establish a branch of the business which he and Mr. Joseph Sydney Lescher had founded some five years previously in London. The Liverpool branch was carried on



THE SENIOR PARTNER.



WHERE THE FIRM STARTED, 1833.



THE TINCTURE HOUSE, WOOD STREET.

effervescent citrate of magnesia on an immense scale. Though competition is said to have cut down the profits on



THE LABORATORIES AND MILLS, FLEET STREET, LIVERPOOL

in Fenwick Street, and was not pavilioned in much splendour, if we may judge from the annexed sketch of the exterior. Mr. Lescher retired from the Liverpool partnership in 1835, and at that time Mr. Thomas Bickerton Evans

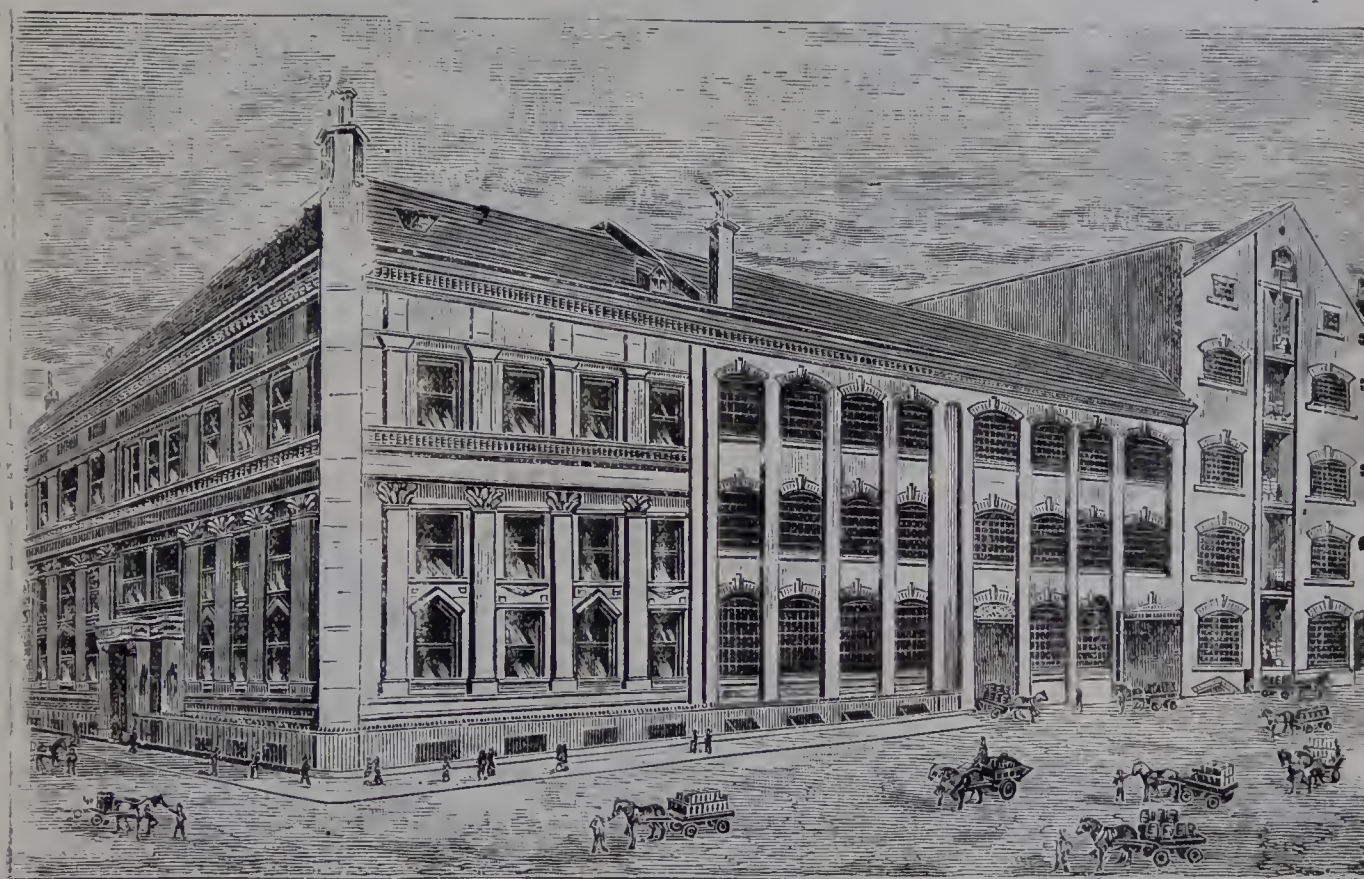
became associated with his father. In 1840 two other sons, John and Edward, were received as partners, and from that time the style of Evans, Sons & Co. was assumed.

#### THE PRESENT PARTNERS

In the firm are the Edward Evans named above and his four sons, John James Evans, Edward Evans, jun., William Paterson Evans, and Alfred Bickerton Evans. The senior partner has for some years retired from active work in the firm, and resides on an estate near Wrexham, where he fulfils the duties of a county magistrate, and of a country gentleman generally. The youngest of the four sons, Mr. A. B. Evans, resides in Montreal, and manages the Canadian business, which is in association with the Liverpool house. The firm of Evans, Lescher & Webb, London, as is well known, has also always been closely connected with Messrs. Evans, Sons & Co.

As a contrast to the sketch on the opposite page, we here show the principal buildings occupied by the firm at the

or to render Liverpool independent of the metropolitan market altogether. Partly from the necessities of their position, and partly from a desire to use their capital to the best possible advantage, Messrs. Evans, Sons & Co. are holders of an exceptionally large stock of drugs, such a stock as, we presume, is certainly not held by any London house. Here, in one corner, we estimate 40 tons of beeswax; there we count 48 1-cwt. cases of essence of lemon, and other essences in like proportion. Camomiles, squills, aniseeds, aloes, and a hundred other medicinal products are in similar bulk. Perhaps sarsaparilla heads the crowd. If the scientific section of the faculty have discarded this drug, it is evident that the tradition of its virtues still retains a powerful hold on the popular imagination. It seems to be quite a speciality with Messrs. Evans. We find elsewhere gallons of the decoction in process of manufacture, and vats of it ready for sale. In this warehouse are innumerable bales of it; and close by is a good-sized room where six women are busy splitting it. "And they keep at



THE OFFICES AND WAREHOUSES, HANOVER STREET AND SEEL STREET.

present time in Hanover Street, with the extensions made in Seel Street last year. The tall building at the end of the principal premises was formerly a wool warehouse, and has been annexed within the past year, and the central part of the premises was built by the firm some years previously. "Recent extensions have been very largely rendered necessary," said Mr. Edward Evans, jun., who conducted our representative through the premises, "by the addition to our drug business of

#### THE SUNDRIES TRADE.

When we decided to go into that branch we resolved to do it thoroughly. It has grown on us year by year, and requires an immense amount of space. We have had to clear out floor after floor, in which we formerly kept stock, for packing and storing our sundries, and as far as possible we are using the six floors of this extra warehouse for our

#### STOCK OF DRUGS."

And passing from floor to floor, the visitor cannot fail to be astonished at the enormous piles of drugs packed closely from floor to ceiling as if to defy dock and railway strikes,

that work all the year round," remarks Mr. Evans. Ultimately we come out

#### ON THE ROOF

"to get a bird's-eye view of Liverpool," says our guide. The picture shown in our sketch is the more immediately striking feature of the scene, though the great city and its noble river are well worth looking at once again before the Manchester Canal opens and carries its wealth and its commerce thirty miles inland. Forty tons of castor oil are always exposed to the sun's influence on that roof.

"It is rather a big article with us," says Mr. Evans. "We sell an average of over 100 cases—13 cases to the ton—every week."

We pass through the Sundries departments on the way down. It would be a bright and cheerful floor if it were not that so much of its space is occupied with the shelved ramparts up and down its area in which stock is packed, leaving only occasional spaces for the busy occupants fitting and boxing feeding-bottles, or labelling and packing the multifarious articles which form so important a part of the modern chemist and druggist's business.

It would be wearisome to describe in detail the various floors and offices in which Messrs. Evans's gigantic business is conducted. There are, of course, all the usual operations with which we are familiar in wholesale drug-houses—dry-rooms, wet-rooms, packing-floors, and so on.

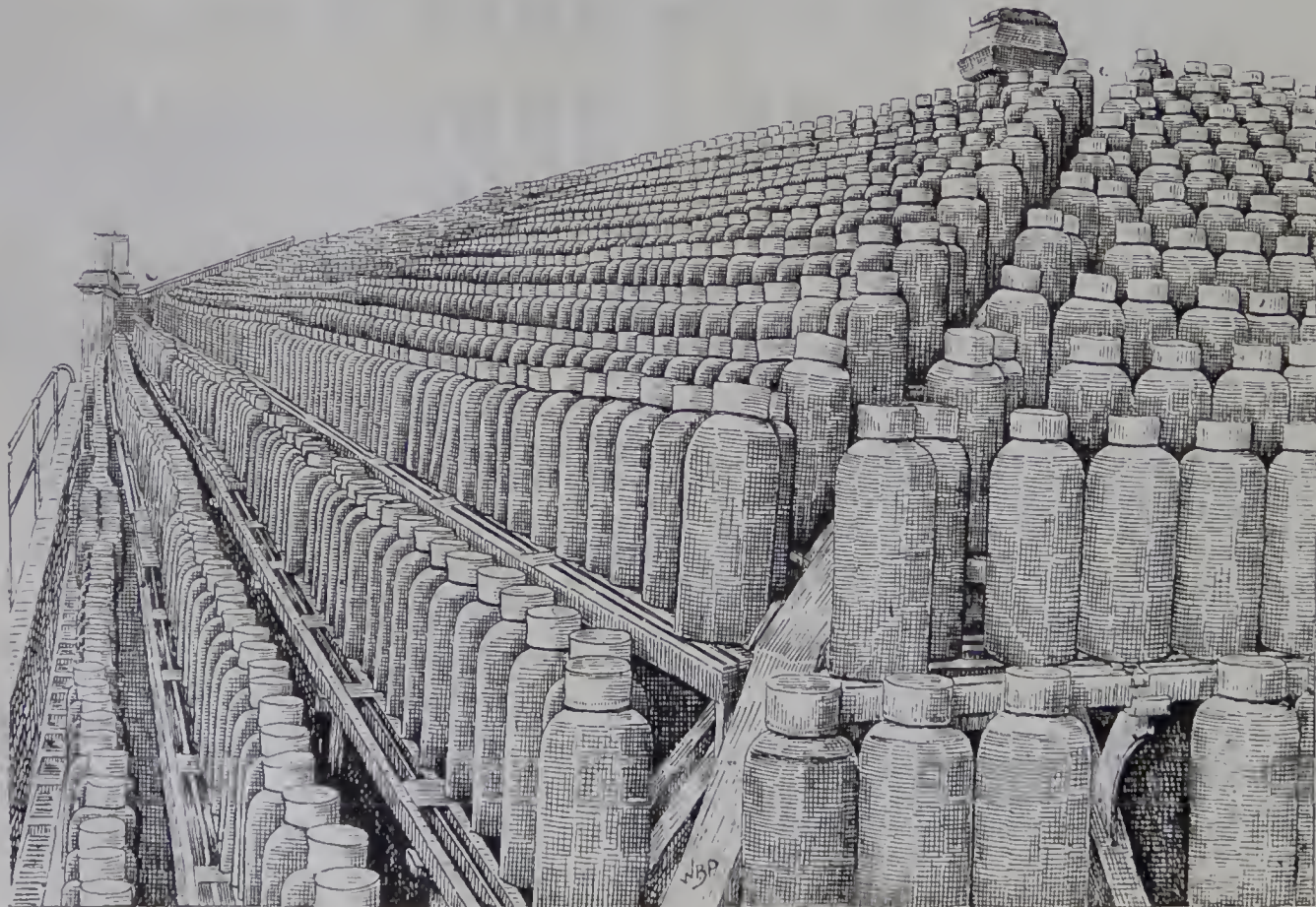
are recorded by forty or fifty clerks, in a spacious and somewhat quaintly fitted apartment, which only needs the apparition of wigs and gowns to convert it into a close resemblance to a court of justice. Opposite to the mills in Fleet Street are the



A SKETCH IN THE SUNDRIES DEPARTMENT.

AUXILIARY TO THE DRUG DEPARTMENTS are coopers' and tinsmiths' shops, a hamper-making department, a shop-fitting department, with a room in which

MONTERRAT LIME-JUICE STORES, a great business itself, and one which it seems hardly reasonable to reckon as an adjunct. All departments of



"VIEW OF LIVERPOOL," FROM THE ROOF.

artists are always employed writing labels and designing. These are all on the Hanover Street premises. Here, too, are, of course, the offices where the transactions of the firm

this extensive concern are under the constant and direct control of the Messrs. Evans. "No document of any kind" comes into or goes out of this place without being seen and

marked by one of ourselves," says Mr. Edward Evans. But the busiest men have always the most leisure. Besides attending very closely to their business the Messrs. Evans take quite a prominent part in municipal and political affairs. Mr. J. J. Evans is a Unionist, a member of the Cheshire County Council, and a magistrate for Cheshire; Mr. Edward Evans, jun., is a Liberal, and President of the united nine Liberal Associations of the city, as well as of the Wirral division of Cheshire.

In the course of the interview Mr. Evans made some pleasant remarks to our representative

#### ABOUT "THE CHEMIST AND DRUGGIST."

It would be hardly fair to repeat what he said about the effect of extensive advertising in that journal, as it might reveal to other wholesale druggists one of the secrets of the rapid development of this great business. But false modesty must not prevent our quoting his refreshing observation in reference to our Trade Report. He knew, he said, that the London wholesale trade had complained that this report conveyed too much information, and did them harm. His view was that such information made their customers better men of business, and if it did that it was to the wholesale man's advantage. He would ultimately do a better business with his customers, and would do it more easily.

#### AN INDIAN CINCHONA PLANTATION.

A CORRESPONDENT at Devikulam, Madras, India, sends us some photographs of a cinchona plantation in the Kanan Dewan Hills, in Travancore, Southern India. Four of these photographs are reproduced in the accompanying sketches. Some of the finest cinchona in the British Indies



is grown in the Kanan Dewan Hills, and the first illustration gives a general view of the country. These extensive tracts have an average elevation of 6,000 feet, and until ten years ago were solely inhabited by the denizens of the forest. About the year 1880 a few enterprising Englishmen succeeded in getting a concession from the native prince whose dominions included the hill country, and, after many difficulties, the best varieties of the cinchona genus were successfully propagated. The pioneers have now the satisfaction that their bark brings comparatively very high prices in the London market. There are still thousands of acres of virgin forest, where cinchona and tea could be profitably cultivated, waiting for the enterprising investor and cultivator. The climate of these hills is perfect; the temperature varies from 30° F. to 70° F. in the shade, and malarial fever, the bane of Englishmen in other parts of India, is unknown. Water is available in abundance, and of such purity that it can be used for making solutions of nitrate of silver and other salts for which distilled water is generally used.

The second sketch represents the forest cleared, except at the margin along the hillsides, where a belt is left to give protection to the young cinchona during the high winds that sometimes prevail. The fallen timber is simply burnt. In the London market it would bring high prices, but there is

an insuperable difficulty to its export owing to the weight of the material. The labourers in the cinchona plantation are



mostly Hindoos; the men earn 5d. to 6d. per day, and the women 4d. They live in grass huts on the estate.

Tea-planting is also carried on in connection with the cinchona industry. These hills seem to be well adapted for tea-growing, the tea harvested being of finest aroma and excellent appearance. A batch of women are seen in the



sketch picking tea under the tall cinchona-trees shading the field.

The next sketch shows a full-grown cinchona-tree in the

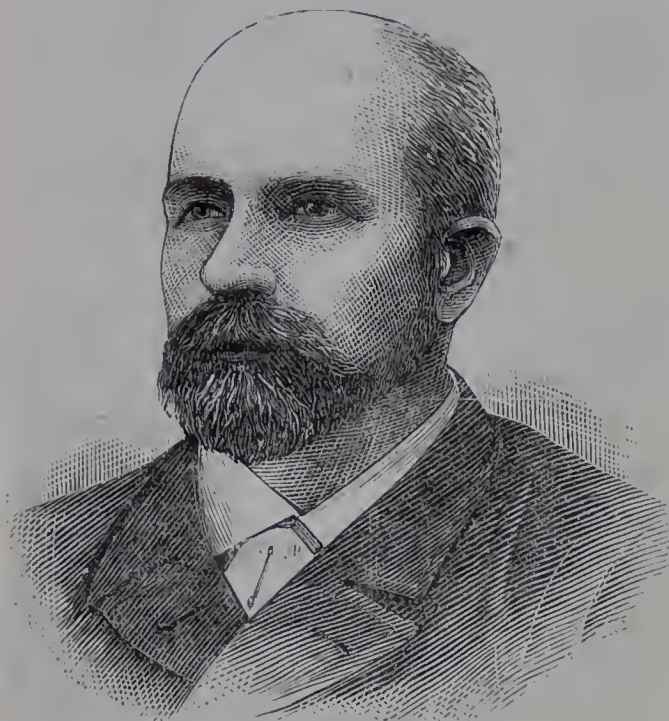


foreground, while further back are seen the iron-roofed buildings where the cinchona-bark and tea-leaves are dried and manipulated. England is represented by the planter in charge standing in the drying-house landing. He can almost say with truth, "I am monarch of all I survey."

DREADFUL! What is the difference between a druggist and people with glass eyes?—The one sells the public isinglass, the other, eyes in glass, sell the public.

## WHOLESALE PHARMACY IN FRANCE.

OUR Town Traveller has extended his journeys as far as Paris. An early duty and pleasure in that city was to call at the offices of the Pharmacie Centrale, the great wholesale drug establishment of France, to congratulate M. Charles Buchet on his appointment, nearly a year ago, as director. M. Buchet had been for a number of years M. Genevoix's lieutenant, and for some time before that gentleman's death, and in consequence of his serious illness, had been practically in control. Now the honour and emoluments of the position, as well as its responsibilities, have fallen to M. Buchet. And the position is one of con-



M. CHARLES BUCHET,

Directeur de la Pharmacie Centrale de France.

siderable importance. The Director of the Pharmacie Centrale of France is a captain of industry on a large scale. The transactions which he controls involve the application of a vast amount of science, of method, of manual and of mental work. The business returns amount to close on a million sterling yearly, and this is exclusively in pharmaceutical products. M. Buchet is the man for the post—quick, keen, full of energy, and at the same time charmingly courteous to all with whom he comes in contact; a skilled pharmacist, and a man of unusual business capacity.

The private apartments set apart for the Director of the Pharmacie Centrale are literally ducal. The hotel of the Pharmacie in the Rue de Jouy was at one time the residence of the Dues d'Aumont, one of whom was a governor of the Bastille. The hotel was built in the sixteenth century. The old courtyard and garden have been built over for the drug warehouse, but the magnificent salons in the front have been maintained in decorative repair, and the director receives his friends in as nobly-proportioned a banquetting-hall as there is in Paris. Two hundred years ago a vaulted subterranean passage, perhaps a quarter of a mile in length led from the hotel to the prison. A part of this is used now for the storage of valuable and dangerous drugs and preparations.

The buildings devoted to the business are arranged in the form of two hollow squares separated by a garden. The first square encloses a paved courtyard, and is entered by an arched gateway, the rest of the building composing it being devoted to the purposes of a materia medica museum, offices, and store-rooms for chemical apparatus and glassware. Behind the chief office is

## THE CENTRAL HALL,

a handsome building 50 or 60 feet high, with a glass roof, and carried all round it are three iron galleries, connected one with another by spiral staircases. Orders are completed and checked here, and small orders filled. Each employé has a separate bench, and the various departments are worked in a most systematic manner. Numbers of wicker baskets, attached to cords running over pulleys, hang from the roof, and these are in constant use for sending up unfilled orders to the operative concerned, and conveying them down when executed. Underneath the central hall are the cellars lighted by gas, where small operations, such as filtering, &c., are conducted, and a good proportion of the wet goods put up. The buildings behind the central hall are fitted up as laboratories for analysis and the production of fine chemicals on the small scale, and still further in the rear are the chocolate-packing department, the capsule-room, and a large office where a number of young Frenchwomen are engaged in the bookkeeping work of the warehouse and packing department. A system is adopted by which any article sent out from the Pharmacie Centrale can be traced from the receipt of the order to its execution, and the names of all persons through whose hands it has passed ascertained. These records are kept in immense volumes. The orders, as they arrive, are distributed to the various departments on slips of paper of varying colour, indicating the department of service. These slips ultimately reach the girls just mentioned, who keep them in exact order. The result is that everyone who handled the transaction has himself recorded his share in it, and the whole affair can be readily traced. As the house has 8,000 customers, and its business is divided into 170,000 orders annually, it may be assumed that this check is not quite an empty form. There is, besides, a photographic department in the establishment, and if a customer raises a discussion about the due fulfilment of his instructions, he will receive in reply, not his original order, but a photograph of it.

Many delicate chemicals are manufactured in the laboratories of the Paris house. A special department too is

## THE CAPSULE-FACTORY.

Girls do most of the work here, and very skilfully and rapidly they produce the capsules, evidently the result of long practice. The moulds consist of egg-shaped knobs of iron or bronze (of the size of the intended capsule) fixed on short metal rods, which fit into holes in a circular wooden disc. This disc has a handle on the reverse side and is punched with holes for 30 to 40 moulds. The moulds, having been slightly oiled, the disc is lifted by the handle, and the egg-shaped ends immersed completely in the following mixture, kept melted by a water-bath:—Gelatine, 2; powdered gum acacia, 1; powdered sugar, 1; honey, 1; water, 10. In a few seconds they are lifted out, rotated steadily until the gelatine has set, and after a little time removed from the moulds and arranged, month upwards, in a support formed by a disc of wood, having cavities of suitable size on its upper surface. When sufficiently dry they are filled with medicament by a finely-pointed tap supplied from a cistern warmed, if necessary, by a gas-jet. The wooden disc bearing the capsules is now inverted in the melted gelatine (the liquid will not run out of the capsules owing to the pressure of the air) so that the mouths of the capsules dip well beneath the surface; the disc is then withdrawn, and the operation completed by giving it a rotary movement in the air for a few seconds, and then setting aside in a warm place to dry.

The factory of the Pharmacie Centrale is situated at Saint-Denis, about five miles north of Paris. The works cover an area of 30,000 square metres, and the buildings are arranged in the form of a quadrangle, with an open space in the centre, on which are erected drug-mills, an engine-house, and sheds for special operations. Near the principal gate a warehouse is set apart for the storage of medicinal herbs, and there several women are employed in picking, sorting, and sifting dried plants and leaves for stock. Near by are cellars, in which are immense vats in which cod-liver oil and castor oil are allowed to settle before being finally filtered and filled into long-necked white glass bottles. In the next building are vats (heated by furnaces) for the preparation of carbonate of magnesia by the double decompo-

sition of sulphate of magnesia and carbonate of soda. The by-product sulphate of soda is crystallised in a peculiar manner, the crystals being very small and resembling sul-

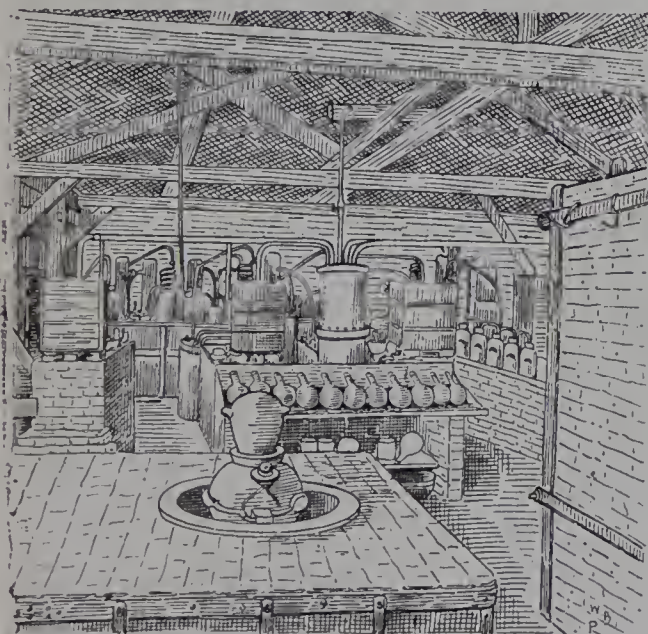
No.



WORKS AT ST. DENIS, CENTRAL AVENUE.

phate of zinc; quite different from the large oblique prisms so familiar in England. This form is preferred in France. In the basement of this department are the kilns for burning calcined magnesia. The carbonate is pressed into lidless, perforated, fireclay boxes, each pair of which can be closed by inversion, one on the other. When filled they are built up in the kiln so that the perforations coincide, thus providing for the escape of the carbonic-acid gas, and calcined for twelve hours.

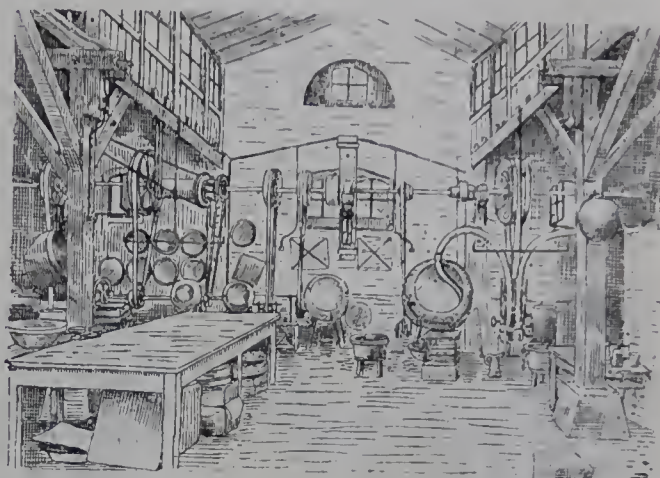
Chloral hydrate is made on a very extensive scale at Saint-Denis, a large shed being set apart for the manufacture. The process depends on the production of chloral by the direct action, under certain conditions, of chlorine gas on



MANUFACTURE OF CHLORAL.

absolute alcohol. The chlorine is generated in earthenware vessels, of about 8 to 10 gallons capacity, which are set in rows of five in water-baths, heated by furnaces. As the gas comes off it is cooled by passing through large earthenware worms, exposed to the air, and is thence conducted by glass tubes through a series of earthenware Woulff's bottles, containing absolute alcohol kept at a certain temperature. The product is then agitated with two or three times its volume of sulphuric acid, distilled from a water-bath, and further purified by agitation a second time with sulphuric acid and redistilled with recently-ignited lime. The resulting chloral is finally distilled fractionally, in glass retorts, and converted into hydrate by treatment with water. The rows of earthenware retorts and generators, the regiments of Woulff's bottles with their glass tubes filled with greenish-yellow gas, crossing and re-crossing one another in seeming

confusion, the furnaces, the distillations going on in every direction, and the prominent spirals of the condensing-worms surmounting the whole, form a very imposing array of apparatus. Next to the chloral-house is the pill and granule department, where the operations of making and coating pills are carried on; sugar is the favourite coating in France. The machines for sugar-coating consist of large nearly spherical copper bowls, rotating slowly on an inclined axis. There is an arrangement by which they can be warmed, if



SUGAR-COATING PILLS AND GRANULES.

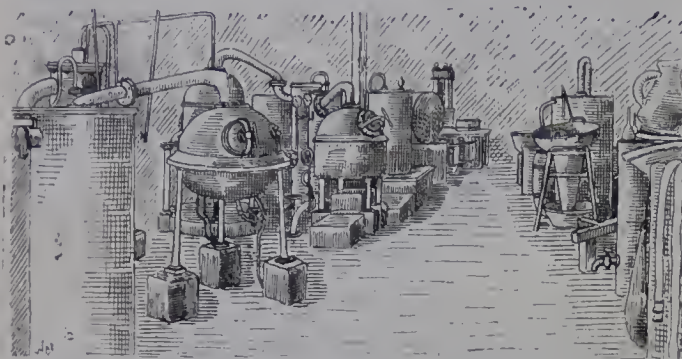
necessary, by steam, and a flat copper pipe, projecting into the interior of each pan, directs a current of air from a swiftly-revolving fan on to the surface of the pills or granules. The pan rotating slowly, the pills are placed inside, moistened with a solution of gum, and a mixture of sugar and starch gradually added. The motion is continued until the pills are smoothly and uniformly coated; they are then removed from the pan, and dried thoroughly on hair sieves in a stove. The same operation is repeated a second and a third time, the rotation being continued after the last coat, until the pills have acquired a sufficiently high polish. We noticed one of the machines engaged in turning out effervescing citrate of magnesia in minute spherical granules—a form which is, to a certain extent, a novelty in England. The acid and alkaline constituents of the preparation are mixed separately with white sugar, and treated in a revolving pan, the additions of acid and alkaline mixture being made alternately. The product is an effervescent citrate of magnesia, in round, white granules of about the size of mustard-seeds. For silvering pills a hollow glass globe, about 2 feet in diameter, is employed. This is inclined at an angle and rotated, and the moistened pills and silver leaf introduced through a circular hole in the front. After running for some time the pills become perfectly coated with silver-leaf and acquire a perfect smoothness and polish.

## A PLASTER-SPREADING ROOM

comes next. Along one side of the apartment is a low bench, about 30 feet in length, having a winch and handle fixed at one end, and the "sparadrapier," or plaster-spreading machine, at the other. The latter is simply a rectangular block of wood, on which is secured an iron plate bearing transversely a flat polished steel bar, the edge of which can be moved nearer to or further from the surface of the plate by means of adjusting screws, thus leaving a narrow space of varying width between the two. In front and behind is a roller, and the block is further provided with two sides or ears to prevent the excess of plaster from running about. The plaster having been melted and strained into a copper bowl, the iron parts of the "sparadrapier" are heated, and a roll of linen or other material, previously wound on the hack roller, is passed under the transverse bar, over the front roller, and attached to two cords connected with the winch, and a weight fixed to the hindmost roller to give the requisite tension. A continuous stream of liquid plaster is then poured in a pool on the linen behind the bar, and, the handle of the winch being slowly turned at the same time, the

material is drawn under the bar, which removes the superfluous plaster, and leaves a perfectly smooth and even surface.

The extract laboratory is one of the most perfectly appointed departments of the factory. In the centre of the building are several tall vacuum-pans, and ranged all around are hydraulic presses, condensers, fantastically-shaped stills, steam-pans large and small, filters, and all sorts of apparatus useful in the preparation of extracts. The laboratory and a large pharmaceutical laboratory for the manufacture of tinctures, extracts, &c., adjoin. In both, as well as in the chemical departments, the apparatus seems to be pretty fully employed. On the day we visited the works there were, we were told, seventy-eight different products in course of preparation. In one of the laboratories some workmen were engaged on a batch of extract of cinchona. The powdered bark is contained in a large, upright copper percolator, closed on all sides except where it is connected at



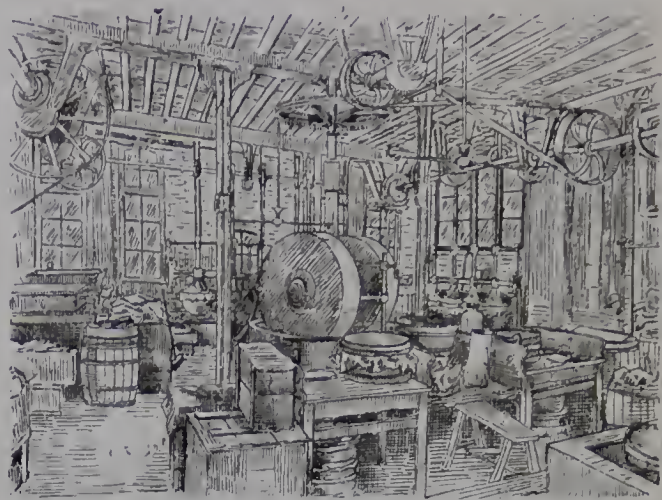
PHARMACEUTICAL LABORATORY.

the bottom with the vacuum apparatus, and at the top to a pipe communicating with a vessel of water at  $120^{\circ}$  F. As soon as a vacuum is created by the pumps the exhausting liquid is drawn up into the percolator, and, entering at the top, percolates through the bark until the latter is saturated. Maceration is allowed to go on for an hour or two, and the liquor drawn by the vacuum into the pan, where it is evaporated, at a temperature of about  $120^{\circ}$  F. to an extract. More water rises to take the place of that removed from the percolator, and by repeating this three or four times the bark is completely exhausted. This seems to be an ingenious application of the principle of percolation under pressure and evaporation in vacuo; exhaustion is very quickly effected, and the whole process is performed out of contact with the atmosphere. We also remarked, in some of the pans, a very simple device for facilitating evaporation and preventing the vexatious boiling over which sometimes occurs in steam laboratories. It consists of a flat disc of metal, about 12 inches in diameter, with a circular opening in the centre, from which rises a wide tube, also about a foot in length, with the edge spreading and curving outwards something like the flange on the funnel of a locomotive. If this arrangement be stood disc downwards in the middle of a pan of boiling water, ebullition takes place almost entirely through the central aperture, and the liquid, rising up through this, flows over the curved mouth of the tube into the pan again; and, if the boiling be excessive, the only result is that a mound of boiling liquor forms in the centre of the pan, but nothing is lost over the sides.

#### THE ENGINE-ROOM AND DRUG-MILLS

are in a separate building on the open space in the centre of the works. The pulverising and sifting machinery is to a large extent of the type usually seen in England, comprising edge-runners, several mills on the coffee-mill principle, machines known as mechanical disintegrators, mills for making mercurial ointment, and a long row of sifting-frames and drum sieves. Mechanical pestles and mortars are extensively used here for many purposes. The mortars are arranged in sets of four on solid wooden blocks, and the long handles of the pestles are actuated by a horizontal shaft having projecting arms, which lift the pestle and then allow it suddenly to fall. Each mortar is furnished with a leather cover, securely fastened round both its mouth and the handle of the pestle, thus preventing any loss of powder. From the

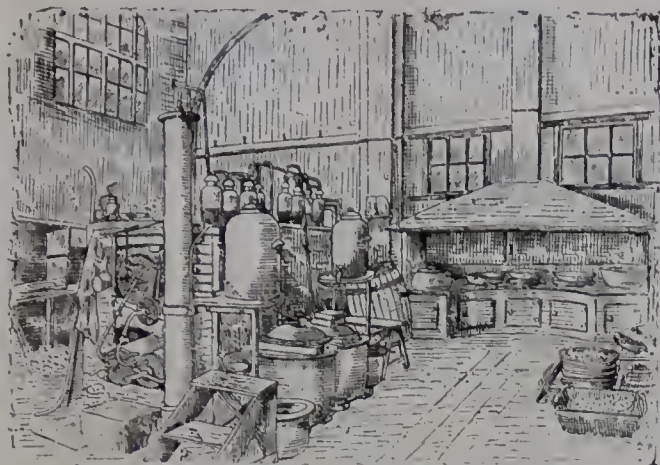
deafening noise of the pestles and mortars, mills, disintegrators, and other machinery, we pass on to the chemical department. Here some women were stirring and boiling



POWDERING ROOM.

down panfuls of potassium bromide for crystallisation; and a little further on an ancient dame was engaged in sealing ferri ammon. cit. on glass plates in a hot room. The manufacture of gelatine perles was next inspected. The machines appeared at first sight rather complicated; but on closer examination the principle involved was seen to be very simple. A machine consists essentially of two parts—viz., a mould for the perles and a powerful press. The mould is formed by two rectangular iron plates, each about 1 inch thick, 8 inches long, and 4 or 5 inches wide, perforated with circular holes of the diameter of the intended perle; each hole has a raised margin. There is also a rectangular frame of iron, which fits between the upper and lower halves of the mould. The gelatine is poured on polished plates of silvered copper, from which it is stripped when dry, but while still flexible, forming sheets of the same dimensions in length and breadth as the mould. One of these sheets is laid on the rectangular iron frame placed on the lower half of the mould, and the required quantity of the liquid to be enclosed in the perles (chloroform, santal oil, ether, &c.) measured out and poured on to the concavity formed in the centre of the sheet by reason of the gelatine being supported only by the sides of the iron frame. The edges of the gelatine having been moistened, and another sheet superimposed, the upper half of the mould is placed in position and the whole subjected to powerful pressure. By this operation the sheets of gelatine become united at their edges, and thus a sort of compound sheet is produced consisting of a layer of liquid enclosed between two layers of gelatine. The rectangular frame is then removed, the mould replaced in the press, and again pressed as quickly and forcibly as possible. The raised edges of the circular holes in the two parts of the mould being exactly opposite to one another those portions of gelatine lying between them are forced together, but can only meet at their margins owing to the enclosed liquid, which causes the whole to assume the form of spheres; and the powerful pressure applied ensures the complete cohesion of the two gelatine surfaces along the line of union. When taken out of the mould the sheet of gelatine, which is perforated all over with holes from which the perles have fallen out, is placed in a funnel, to drain off any remaining liquid still adherent to it. There is a special laboratory, beautifully bright and clean, for the manufacture of alkaloids, and another set apart for the production of iron reduced by hydrogen. A very extensive and interesting series of buildings is devoted to medicated confectionery, such as gum pastilles, lozenges, &c. Copper steam-pans are used for melting the various pastes, sugar solutions, &c., and the paste for the lozenges is rolled out and stamped almost automatically by machines tended by women. Each lozenge is generally impressed with the device and name of the customer for whom it is intended, by means of movable stamps fitting in slots in the rollers of the machines. Medicated gum jujubes are made in a very simple

manner. A shallow wooden tray is filled with a mixture of powdered sugar and starch, and the surface made even by



MANUFACTURE OF REDUCED IRON.

passing over it the edge of a straight wooden lath. A thin slab of wood of the same size as the tray, and covered with diamond-shaped projections, is pressed down upon it, and the melted gum mass poured into the diamond-shaped holes thus formed. Starch mixture is then dusted over the lozenges as soon as they are set, and the whole placed aside to dry. The resulting jujubes are very similar in appearance to the familiar "pâte de guimauve."

In 1889, the Exhibition year, the management of the Pharmacie Centrale set apart one day a week to show their works and their warehouses to all pharmacists who cared to visit them. Those who took advantage of the invitation—and there were some English druggists among these—could have hardly failed to spend a pleasant and profitable day.

#### FILTERING IDEAS.

SOME time ago J. Rolfs communicated to the *Pharmaceutische Zeitung* an idea of his own regarding the filtration of raspberry-juice. It was simple enough, and was this:—Half fill a funnel with pieces of broken glass, then place a piece of gauze upon it, next a layer of paper pulp half an inch or an inch in thickness, then another piece of gauze, and fill up the funnel with more broken glass. This makes a good filter, and can be used over and over again, taking care, after using it, to run fresh water through it until it comes away colourless. Ideas of this kind generally draw out others of a similar nature, and so it was in this case. Following Mr. Rolfs, a Mr. A. Hucklenbroich, of Hempen, a town on the Rhine, sent our contemporary some notions, of which we reproduce here the more important. First,



Fig 1

sponding proportions. The part *c* is where the filtering

there is the arrangement shown in Fig. 1 for filtering such things as pepsin wine, which filter slowly. Place in the funnel a plug of wadding, and above it pour a thin paste made from 30 to 50 grains of paper pulp. When the water ceases to drip from this press the pulp gently with the fingers so as to make a kind of felt of it, after which it is ready for filtering. For filtering larger quantities of liquid a tin filter (Fig. 2) is employed. This funnel has a diameter of 25 c.m. (10 inches) at the upper part (*a*), and is there 20 c.m. (8 inches) high. The lower part (*c*) has a diameter of 12 c.m. (4½ inches), and is 3 c.m. (1½ inch) deep. The lowest or tube part is in corre-

material is to be placed. Two rings are necessary, shaped like Fig. 3, made of iron covered with indiarubber, and exactly fitting *c*. One of these is taken, a piece of stout gauze is placed upon it, as in Fig. 4, and this is pressed "home" in *c*. Then 5 or 6 drachms of paper pulp is taken, and is made with water into a paste, the water allowed to trickle away, and, finally, the second ring, fitted with gauze like the first, is pressed down upon it into *c*. This makes a very efficient filter, capable of holding fully two gallons of liquid at a time. For supporting it upon the vessels which are placed to receive the clear liquid, four legs or supports may be fixed to the part *ab*, so that they will rest on the shoulders of the bottle. Mr. Hucklenbroich has a modification of this idea adapted to a glass funnel. It was conceived for filtering raspberry-juice. Here, upon the ring *a* (Fig. 5), with its gauze covering, is placed a thin layer of wadding, and then 5 or 6 drachms of paper pulp in paste is poured upon it, and is felted by placing over it a larger ring with gauze, in the position shown at *b*. For juices a little more paper pulp may be placed above *b*, so as to catch and retain the greater part of sediment, and so enabling it to be removed from time to time; but for most liquids this is unnecessary. Such are Mr. Hucklenbroich's ideas, and he says that the filters are very efficient. Can any of our readers supplement the observations with wrinkles or devices of their own? If they can we shall be glad to give publicity to them. An elaboration of an old idea has recently appeared in the United States, and was shown at the last meeting of the American Pharmaceutical Association. It is called the "Philterphast," and, while taking advantage as far as possible of syphon-action and the like, the point about the new device is that the filtering material remains uninjured when exposed to heat or cold, is unacted on by liquids, and can easily be cleaned, while it is strong enough to stand great pressure. Another idea for automatic filtration is to invert the bottle of liquid to be filtered over the funnel containing the filter: as soon as the liquid in the latter reaches the mouth of the bottle the flow of the liquid stops, but, as filtration goes on, the bottle allows more liquid to flow out.

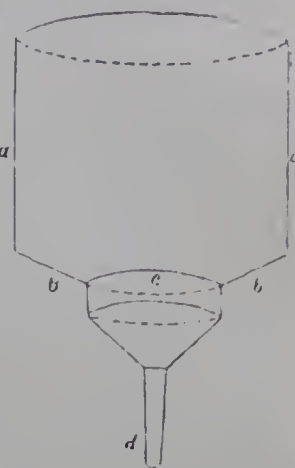


Fig. 2.



Fig. 3.

Fig. 4.



Fig. 5.

HOPS IN ALE.—In addition to giving flavour and bitterness to ale, hops are beneficial owing to their tannin, which acts directly as a clarifying agent by forming insoluble compounds with the albuminoids of the malt-extract, and indirectly as a preservative, because these albuminoids, which the hop tannin in great part removes, are the most readily decomposable bodies existing in the wort, and if left in solution would render it liable to putrefactive fermentation.

## HINTS FOR THE TOILET DEPARTMENT.

PROFESSOR JOHN V. SHOEMAKER, whose name is so well known in connection with the introduction of olcates, has recently published a book, entitled "Heredity, Health, and Personal Beauty" (F. A. Davis, Philadelphia and London), which is a delightful leisure-hour study. The professor is chatty, a little garrulous now and then, but always entertaining, and there is much wisdom in what he has to say regarding the health of the body and the care of the skin. We must not attempt to review the book here, as that will be done in another section. What we propose to do now is to give a few extracts from the volume. It is a popular treatise, written for those who have a half-suppressed passion for evolution theories, who are eminently regardful of their health, or who are concerned about their complexion. Apart from that, we question if any could get as much good from it as chemists and druggists, especially of the latter part, which is brimful of hints regarding the care of the skin, and contains many formulæ. We are inclined to think sometimes that those who make toilet specialities would be none the worse of a little more physiological knowledge than they do have; and here they may get it. Regarding

## THE FACE,

Professor Shoemaker enforces the sound maxim that "the most cosmetic things in the world for the skin are fresh, cool water, bland soap, and gentle friction. A wholesome, handsome complexion can come only of the aggregated effects of fresh air, exercise, good food and clothing, and generally good habits of life." This is sound advice at the outset. Sunburn and freckles, he says, if not of long standing, are quite amenable to treatment with tincture of benzoin and water, one teaspoonful of the simple tincture to a cupful of cold water. Carefully avoiding getting the mixture into the eyes, bathe the parts for ten minutes morning and night. Let the face then become almost dry, and while it is in a slightly moist condition, dry it gently with a piece of soft old linen. A good preparation for the removal of *freckles* is the following paste:—

	Drachms
Oxide of zinc .. .. .	3
Subiodide of bismuth .. .. .	$\frac{1}{2}$
Dextrin .. .. .	$2\frac{1}{2}$
Glycerine .. .. .	3

Apply the mixture at night before retiring, and remove the residue in the morning with a little powdered borax and sweet oil.

These hints are not exactly seasonable, except to our colonial subscribers, but they will come in useful to those at home ere long. In regard to

## CHAPPED HANDS.

The following is given as "eminently soothing and curative":—

Glycerine .. .. .	2 oz.
Egg albumen .. .. .	2 "
Otto of rose .. .. .	2 drops

Rub the mixture gently into the skin every day.

Irritation of the skin, common enough at this season, and often arising after shaving, is greatly soothed by an application of a cream which a Philadelphia pharmacist has devised in the following:—

Cacao butter .. .. .	$\frac{1}{2}$ oz.
Oil of almonds .. .. .	$\frac{1}{2}$ "
Glycerine .. .. .	1 "
Powered white Castile soap .. .. .	$\frac{1}{2}$ "
Otto of roses .. .. .	2 drops
Otto of neroli .. .. .	4 "
Oil of bitter almonds .. .. .	5 "
Rose water, to .. .. .	8 oz.

Make an emulsion.

This is to be applied to the irritated parts, and allowed to remain for a few minutes before wiping off with a soft cloth

Another good application, especially for skin which has become rough and scurfy with exposure, is:—

Boracic acid .. .. .	1 drachm
Distilled witch hazel .. .. .	2 oz.
Rose water .. .. .	2 "

Mix.

The addition of a little glycerine of tannin to glycerine and rose water is highly advantageous when chaps and fissures are persistently indolent, and will not heal. The following are also excellent compounds:—

Benzoated zinc ointment .. .. .	1 oz.
Cold cream of roses .. .. .	$\frac{1}{2}$ "
Subnitrate of bismuth .. .. .	$\frac{1}{2}$ drachm
Camphor .. .. .	5 grains

Make an ointment, which is to be rubbed in night and morning.

This ointment softens and whitens the skin, while it removes roughness.

	Drachms
Oleate of zinc, in powder .. .. .	3
Subnitrate of bismuth .. .. .	3
Lycopodium .. .. .	2

Mix, and perfume if desired.

To be dusted on the chapped skin, after washing and drying.

For cracked lips and fissures at the corners of the mouth and nose a 50-per-cent. solution of boro-glyceride applied several times a day is very beneficial. For cracks and irritation round the nose the following is recommended, and with the addition of a suitable perfume would make a nice preparation to retail in 2-drachm pots:—

Ointment of subacetate of lead .. .. .	2 drachms
Cocaine hydrochlorate .. .. .	3 grains
Lanoline .. .. .	2 drachms

Mix, and apply to the irritated surfaces.

In the volume there is a special chapter on "The Constitution, Growth, and Diseases of the Nails," which is interesting now that "manicure" is being appreciated in this country; but we must content ourselves by referring to it merely.

## ON THE HAIR

there is also much interesting reading, and one cannot help appreciating the sentences wherein Professor Shoemaker says:—"In view of the beautifying effect of white hair, it is extraordinary how many persons are blind to the fact. In Marie Antoinette's time it was accepted and utilised. Even the youthful face looks more youthful still with powdered hair; every fancy ball proclaims the fact. It is strange, therefore, that, despite the fact, men of a certain age will persist in dyeing their hair and beards to look like blacking-brushes, and women of an uncertain age make it appear most certain by donning black 'fronts' as rigid as the coiffure of the damsel that often serves as a ship's figurehead." Following this, a great deal is said about the anatomy of the hair, and how to preserve the natural covering of the head. Very amusingly we are told all that men suffer at the hands of barbers, and very many barbers' shops are the forcing-heds of hair disease. One cannot help envying the professor of his acquaintance with "the San Francisco barber who never uses a brush a second time until it is washed," who keeps "baskets of freshly-washed brushes, looking at a little distance, like heaps of freshly-cut straw." It is possible to brush the hair a little too well. "We have known men to promote baldness by severe brushing of the scalp by hard brushes," says our author; and he goes on to tell us that "sluicing the hair with all sorts of astringent and stimulating lotions" is just as bad. What should he use, and what should be avoided, then? In the first place, "avoid all cosmoline and vaseline preparations, which are derived from petroleum. . . . Going beyond that, we recommend as best for the hair not even a vegetable oil, but an animal oil; because we believe that nature knows best about everything, and in this matter our experience confirms the ever-present wisdom of its ways." But vegetable oils, we are told, will do in health simply to remove dryness, always keeping in mind that oil or grease of any sort is not recommended for decorative purposes, but simply as a fertiliser. For stimu-

lating the scalp in case of gradual loss of hair, the following are regarded as excellent :—

Lanoline .. .. .	1 oz.
Bicarbonate of sodium .. .. .	1 drachm
Mix, and rub once a week over the scalp in a single application.	
Corrosive sublimate .. .. .	15 grains
Turtle oil .. .. .	6 oz.

Mix, and use as a hair oil.

Both these preparations should be perfumed. The second would be all the better, we should think, if the corrosive sublimate were dissolved in half an ounce of ether before adding it to the turtle oil. It will be judged from what has been said that Professor Shoemaker is not a lover of hair preparations, consequently he gives comparatively few formulæ. The following are for preventing the hair falling off :—

1.	
Distilled witch hazel .. .. .	5 oz.
Corrosive sublimate .. .. .	10 grains
Dissolve, and use on the scalp twice a day.	

2.	
Tincture of unx vomica .. .. .	1 oz.
Spirit of rosemary .. .. .	2 "
Rectified spirit .. .. .	2 "

Mix, and apply as above.

3.	
Oleic acid .. .. .	2 oz.
Spirit of lavender .. .. .	2 drachms
Eau de Cologne .. .. .	2 oz.

Mix, and apply to the scalp.

There are chapters in the book on the care of the feet, the eyes, the ears, and the teeth; but already we have exceeded the space at our disposal, and must refer those interested to the volume itself for further information.

## Practical Notes and Formula.

### DYSMENORRHEA PILLS.

PROFESSOR HEINRICH FRITSCH, of Breslau, gives (*Therap. Monatsh.*) the following :—

Ext. hydrastis canadensis insipis ..	gr. xlv.
Ext. gossypii insipis .. .. .	"
Ergotin .. .. .	"

Fiat massa et divide in pilulas centas.

Dose.—Three pills three times a day.

### CURE FOR CHILBLAINS.

BESNIER'S method for the treatment of chilblains is as follows :—Bathe the hands in a decoction of walnut leaves; dry, rub with camphorated spirit of wine, and dust with a mixture of salicylate of bismuth, 1 part, and starch, 9 parts. When the itching at night is very troublesome rub with a mixture of equal parts of glycerine and rose water containing about  $\frac{1}{2}$  grain of tannin to the ounce, and dust with the powder. If the chilblains are ulcerated dress them with walnut leaves soaked in warm water.

### CEMENT FOR GLASS LABELS.

BEESWAX is an excellent material for attaching glass labels either to bottles or to wood surfaces, says the *Druggists' Circular*. Melt the wax, warm the label, and also, when practicable, the surface to which it is to be applied; coat the label with the wax, place on the surface, and press the label gently into place, with sufficient force to expel any great excess of wax. When quite cold this excess is to be scraped off, and the surface can then be made perfectly clean by rubbing with a rag moistened with turpentine. White wax may be used instead of yellow; while scarcely as tenacious, it is quite enough so to answer, and presents a better appearance when the back of the label happens to be seen. A small proportion of resin is sometimes added, but the cement is better without it, unless it is to be exposed to a tropical temperature.

### AMERICAN COUGH-MIXTURE.

THE preparation for which the following is the formula is a favourite in the United States under the name of "White pine expectorant." It is advisable to make the tincture only, and to keep it in stock, adding so much of it to simple syrup as required. In this case make the tincture measure only 8 oz., so that equal parts of the tincture and syrup may go to make the mixture :—

White pine bark .. .. .	1 oz.
Wild cherry bark .. .. .	1 "
Balm of Gilead buds .. .. .	64 grs.
Spikeard .. .. .	64 "
Bloodroot .. .. .	64 "
Sassafras .. .. .	32 "
Chloroform .. .. .	60 min.
Acetate of morphine .. .. .	3 grs.
Sugar .. .. .	12 oz.
Rectified spirit .. .. .	4 fl. oz.
Water, to make .. .. .	16 "

Mix the alcohol with 6 fl. oz. of water, moisten the powdered drugs with this menstruum, and pack in a percolator. Allow to macerate for twenty-four hours; then proceed with the percolation, adding water until 10 fl. oz. of percolate are obtained. To this add the chloroform and the morphine previously dissolved in water; in the liquid dissolve the sugar by agitation without heat and strain.

Dose : A teaspoonful to a dessertspoonful.

### BROMIDIA.

IN our report of the last meeting of the American Pharmaceutical Association reference was made to a speech of Mr. J. H. Redsecker's, in which he told the meeting how he does when specialities are ordered. He has a "bromidine" which he brings under the notice of physicians who prescribe bromidia. The *Druggists' Circular* has got the formula from Mr. Redsecker, and this is it :—

Bromide of potassium .. .. .	4 troy oz.
Hydrate of chloral .. .. .	4 "
Extract of hyoscyamus .. .. .	16 grs.
Extract of cannabis indica .. .. .	16 "
Oil of anise .. .. .	5 drops
Gum arabic .. .. .	$\frac{1}{2}$ dr.
Water and syrup, of each equal parts, to make 16 fluid oz. of finished bromidine.	

Dissolve the bromide, chloral, and hyoscyamus in a part of the water. Rub the cannabis with the gum and some water, and make an emulsion. Mix all together, add the oil, the syrup, and the remainder of the water, and let stand twenty-four hours, with occasional shaking; then filter.

It is as well to add that "bromidine" is the name applied in the United Kingdom to a disinfectant.

### BOURGARD'S PASTE,

a powerful escharotic, useful in epithelial cancer, is composed of wheat flour, 60; starch, 60; arsenic, 1; cinna-bar, 5; sal ammoniac, 5; corrosive sublimate, 0.5; solution of chloride of zinc, 245. The first six ingredients are to be separately ground, and then mixed together in a glass mortar. The zinc solution is then to be slowly added, while the contents of the mortar are kept rapidly moving by means of a pestle.

### HUILE DE CADE LINIMENT.

THE following is a good formula, which Mr. W. Bull, F.R.C.S., communicates to the *Hospital Gazette* in an article on the treatment of psoriasis :—

Huile de Cade .. .. .	3v.
Glycerini amyll .. .. .	3v.
Sapo. mollis .. .. .	3vj.
Ol. citronellæ .. .. .	q.s.

M.

Rub the soft soap and huile de cade together, and when fully incorporated pour from mortar into convenient vessel. Replace this in mortar with the glycerine amyl, and rub slowly down until quite smooth; then add ol. citronellæ q.s.

It is probable that some of the huile de cade will separate, but once a smooth mixture has been obtained stirring up with a stick will bring it all right. This liniment is applied without much friction every night, and washed off in the morning in lukewarm bath, using Wright's coal-tar soap.

## A BUSINESS TRIP THROUGH INDIA.

MR. PERCY COLLINGWOOD, of the firm of Hertz & Collingwood, returned some time ago from a business journey through British India, and in a pleasant evening's chat he communicated to a CHEMIST AND DRUGGIST representative his impressions on our great dependency, its people, and its future from the point of view of the modern business-man.

Bombay was the first place at which Mr. Collingwood set foot on Indian soil. Thence he proceeded to Karachi by sea, and from that port by rail through the North-western Provinces, and through the Ganges valley to Calcutta. Madras was visited on the homeward journey.

## CHEAPNESS, MORE CHEAPNESS, AND STILL MORE CHEAPNESS.

Mr. Collingwood made it a point to spend as much time as he could in the bazaars and native quarters of the cities he visited, and he has come away strongly impressed with the rapid manner in which the importation of foreign, and especially German, goods is gaining ground in India at the expense of British-made goods.

"I suppose, Mr. Collingwood," said our representative, "that that is owing to the old complaint, cheap continental labour, with which the British manufacturer is unable to compete?"

"Of course it is," was the answer; "but you must bear in mind that the rate of wages throughout India is so absurdly low in European eyes—3 annas or pence a day being considered a munificent wage—that the stock British argument that well-made but expensive goods are cheapest in the long run is altogether thrown away upon the native, whose desire to increase his comfort by the possession of an article of which Europeans have taught him the advantages has been aroused, but who will never be able to scrape together an accumulation of annas such as the possession of the superior British article would require. I was particularly struck with the fact that cheapness (even if nastiness should be its inevitable concomitant) must be the guiding principle of the exporter to India in any dealings in hardware, tinware, and druggists' sundries. Small clinical thermometers, which no English maker quotes at less than 54s. per gross, are thrown on the market in thousands at from 12s. to 15s. per gross by German factories, and the native dealers assured me that their customers made no complaints of the quality of the articles supplied. Now, if you will please remember that the population of India is about ten times that of the United Kingdom, and that probably 99.9 per cent. of that population are, judged by a European standard, wretchedly poor, you will see that it is not likely that we shall ever gain their custom unless we choose to adapt ourselves to their requirements."

"There are many very important European drug firms in India. Do they do a considerable part of the native trade?"

"No, not at all; and I think they have missed a magnificent opportunity. Practically all British drug firms in India were originally started as retail establishments, for the purpose of dispensing medicines to the European residents—civil, military, and commercial—in the large towns. They utterly failed to note the importance of the revolution wrought in the native drug trade by the growing acquaintance of the native medical men with Western therapeutics. Many of these native doctors have taken their degrees in England, and no sooner do they establish themselves than they begin to dispense. At first they endeavoured to do business through the English houses, but the high profits charged by the latter compelled them to apply straight to Europe, and now the direct bazaar imports are simply enormous."

## THE BAZAAR MERCHANT.

"The Bombay bazaar is the most important one I have seen in India. Here the roads are quite wide, while a line of tramcars makes access tolerably easy in ordinary weather from the European quarter—viz., the Fort.

"As a rule, in the bazaars the various trades mass together. Thus, for instance, you have all the workers of brass, copper,

and various metals in one street, cloth and cotton goods in another, and your chemists' or druggists' stores in a third.

"The bazaar merchant's drug store is suggestive of nothing less than of a dispensary in the European sense. It is simply a small shop compared with which a fried-fish shop in a London back street would be thought palatial, but the owner of that shop may very likely be one of the wealthiest merchants of the bazaar, whose goods occupy acres of space at his go-down, or warehouse, in another quarter of the town. Yet here he squats in his little shop all day long, serving retail or wholesale customers indiscriminately.

"To the mind of the bazaar merchant the invoice amount bears no relation whatever to the profit. A transaction in which he supplies a rupee's worth of goods and makes four annas profit is to his mind exactly on a level with one in which his sale represents a value of a thousand rupees, and leaves him four annas to the good. I called upon a man who had just sold a case of whisky to another native. The price he received was exactly the same as that which he paid, but he received the whisky in a case and sold it without, the case realising fivepence by itself, and there was a profit on the business with which he was exceedingly well pleased. The European calling upon the bazaar merchants is invariably treated with the utmost courtesy, with salaams, and invited to be seated upon the solitary hox, or chair, of which the establishment, if a large one, boasts. A boy is told off to fan him during the whole time of his visit, which may be prolonged for three or four days before a settlement is arrived at, for the bazaar merchant is never in a hurry himself, and if he thinks he can save a fraction he will patiently hargain to the end of the week."

## THE PARSEES.

"I presume you have a good many Parsees among your native customers?"

"I am happy to say that is so. The proportion of Parsees among those interested in the drug and chemical trades is comparatively large, and as a class they rank unquestionably amongst the highest type of merchants one could wish to meet anywhere. This applies specially to the Bombay coast, where the Parsee element is unusually strong. We Britishers shall never be able to colonise India in the ordinary sense of the word, but the Parsee makes the best possible deputy colonist. On the one side he has become thoroughly acclimatised among the natives of India (you know that the Parsees originally hail from the northern parts of the present Persia) and Guzerati has practically become his native tongue. On the other side, he has an unusual aptitude for adopting Western ideas and a great affinity for Western customs. All Parsees speak English—many of them know it perfectly—and they never fall into those grotesque and ludicrous errors which so often cause the Bengalee baboo to become a laughing-stock of the Europeans. The 'commercial king' of Karachi is a Parsee. He has go-downs, or warehouses, so extensive that he takes you round his establishment on a little tramcar to save time. The prosperous Parsee is among the keenest of keen buyers; but when once his fortune is established he loves to furnish his house on the European principle, and delights in driving his family to the Bunder of an evening to enjoy the sea air, and to display his fine horses, while at sunset the rails along the drive facing the sea are crowded with Parsees reading off their prayers to the setting sun. Some of the newest and finest houses in Bombay between Malabar Hill and Breach Candy are in possession of Parsees. They have no hesitation in securing real property in the land of their adoption, and have thus secured many excellent opportunities of profitable investments which Englishmen in India very rarely avail themselves of, their stay in the country being generally terminated at the earliest possible moment."

## THE CLIMATE AND THE JOURNEY.

"Did you get acclimatised pretty quickly, Mr. Collingwood?"

"Well, I did. But I was compelled by circumstances to time my visit at the worst period of the year—May to July. During those months the North-west Provinces are really unfit for travelling for a European. I shall never forget the horrors of my railway journey from Karachi to Lahore

through a sandy desert absolutely devoid of vegetation, and the thermometer never registering less than 120° F. in the shade, and occasionally a blinding sandstorm thrown in. After Lahore came Delhi, where I spent a fortnight; then Cawnpore, one of the prettiest cities of India, and one of considerable commercial importance. Cawnpore possesses a feature of special and melancholy interest to Europeans. It is here that the well is found where, during the Mutiny, Nana Sahib caused a large number of men, women, and children, whom he had treacherously captured, to be massacred. A memorial has been erected over the spot in commemoration of the victims.

"Lucknow is of moderate importance. Agra I found not only well worth stopping at for business purposes, but worth all the horrors of railway travelling in midsummer for the sake of its beautiful monuments, chief amongst which is the tomb of Shah Jehan and his queen, a marble palace of the most perfect beauty, all the interior halls being of Jeypore marble either carved into open screens or inlaid with natural stones, many of them gems of great value.

"Next in importance and interest comes Benares, a town thronged by pilgrims coming to bathe in the sacred Ganges. It is said that a million natives bathe in that river at Benares every day. The native quarter of the city is certainly the dirtiest and the most densely populated that I saw in India.

"In Calcutta I stopped six weeks, and found that time fully occupied with business matters. In the drug branch Calcutta counts three very large European and a very considerable number of native firms. There are also in Calcutta, as well as in Madras and Bombay, many important European and native hospitals.

"An extraordinary number of native half-caste medical men flourish on the Indian east coast, many of them possessors of extremely good degrees, and a large number of these gentlemen are at the head of dispensaries and large druggists' stores. They are unable, for reasons named, to draw their supplies from the English drug houses, and most of their business is done either direct or through the bazaar merchants."

#### MATERIA MEDICA NOVA:

BEING CHEMICAL, PHARMACEUTICAL, AND THERAPEUTICAL  
NOTES ON REMEDIES RECENTLY INTRODUCED INTO  
MEDICINE.

#### Acidum Oxynaphthoicum. Oxynaphthoic Acid. $C_{10}H_7.OH.CO.OH.$

The *alpha* acid was introduced into medicine by Schwimmer a year or two ago. The acid is a derivation of naphthoic acid,  $C_{10}H_7.CO.OH$ , one of the hydrogen atoms being replaced by a hydroxyl group. The acid is prepared in a roundabout way, naphthoic acid first being acted on by fuming sulphuric acid, whereby *alpha* and *beta* sulphonaphthoic acids are formed, and as the barium salt of the former is the least soluble in water, upon this property the separation of the two depends. From the barium salt the potassium one can easily be made, and fusion of this with caustic potash gives the oxynaphthoate, which can be dissolved out by alcohol and recrystallised. The acid itself can be freed by decomposing the potash salt with an acid. It is also made by the direct action of sodium and carbonic-acid gas on naphthol.

The acid is said to be five times stronger in antiseptic power than salicylic acid. It is a white, inodorous powder, nearly insoluble in water, but soluble in alcohol and fixed and essential oils. It has been used in several parasitic skin diseases with fair results. For scabies the best form is the following, which is Schwimmer's prescription:—

Oxynaphthoic acid	..	..	..	1 drachm
Prepared chalk	..	..	..	1 "
Soft soap	..	..	..	1 "
Lard..	..	..	..	1 oz.

Mix.

This can be used for children, upon whom it has no toxic effects. The effects of the acid in venereal and syphilitic diseases are akin to those of iodoform, and solu-

tions up to the strength of 1 in 100, with sodium phosphate, have been used for vaginal injections.

#### Acidum Scleroticum. Sclerotic Acid (*Dragendorff*), Ergotinic Acid (*Zweifel*), Ergotic Acid (*Wenzell*).

In spite of all that has been done in regard to the chemistry of ergot, none of the so-called active principles of the drug have taken the permanent fancy of physicians. The one with the triple name given above is of the favoured few, and Podwyssotsky states that it is one of the most active constituents of ergot, 1 grain being equivalent to about 25 grains of fresh ergot. This, however, is denied by Kobert, who says (*CHEMIST AND DRUGGIST*, xxxvii. 552) it has little or no action upon the uterus. It is important to note, however, that it is possible to get two sclerotic acids, one "according to Dragendorff" and the other "according to Podwyssotsky," and the latter should by preference be used. The acid is an amorphous, pale-brown powder, which dissolves readily in water. It is used hypodermically, the following being the London Hospital formula:—

Sclerotic acid	..	..	..	15 grains
Glycerine..	..	..	..	15 minims
Water to ..	..	..	..	60 "

Dissolve, and add 1 per cent. of pure phenol.

Dose: 1 to 4 minims.

By mouth  $\frac{1}{2}$  to 3 grains of the acid may be given, and it may be noted that 18 grains dissolved in 1 oz. of chloroform-water is equivalent in strength to the fluid extract of ergot.

A compound solution has been used by American specialists, which contains in each fluid drachm  $\frac{1}{2}$  a grain of a mixture of sclerotic acid 2 parts and scleromucin 1 part. This is said to be more reliable than the sclerotic acid alone.

The sphacelenic acid of Kobert has not come into commerce, although according to its discoverer it possesses some of the activity of ergot.

#### Adeps Lanæ. Adeps Lanæ Hydrosus. Wool-fat. Hydrous Wool-fat (commonly known as "Lanoline"). B.P. 1890.

The introduction of the "purified cholesterin fat of sheep's wool," as the British Pharmacopœia has it, into modern medicine we owe to Drs. Otto Braun and Oscar Liebreich, who about seven years ago perfected a process for the purification of suint, the grease which is obtained during wool-washing. But the fat was in use many centuries ago, and had fallen into disuse simply on account of the great difficulty of freeing it from impurities. The cholesterins are eminently suitable for the purposes to which lanoline has been applied, since they are remarkably permanent in the air—indeed, they are extremely difficult of oxidation, and are practically unaffected by most medicinal substances, so that, being the natural fat of the skin, lanoline is more capable of absorption than any other fat.

In Liebreich's process for the manufacture of pure wool-fat, the wash water or lye from wool-washing is passed through a centrifugal machine, whereby the dirt and fat are separated from each other. The fat is collected, and kneaded for a long time with water, until no more impurity is washed away. Then it is freed from the water by melting, and is again subjected to centrifugal force, or is purified by repeated treatment with solvents such as ether, until it is absolutely void of free fatty acids. "The fat so cleansed is thoroughly kneaded for a long time with water, with which it combines to make a perfectly white, neutral, inodorous unguent. This product . . . is termed 'lanolin,'" and is the substance which is protected by the patent No. 4,992, granted in 1882. It is well to note that purified wool-fat itself is not protected by patent—only the article mixed with water. One of the peculiarities of wool-fat is its property of mixing with at least its own weight of water, whereby it is changed from a "yellowish tenacious substance" to one which is cream white. The pharmacopœial characters and tests are sufficiently precise for the exclusion of any wool-fat which is improperly purified. Care should be taken to ensure the absence of free acid and of more than a trace of mineral matter, as more than a trace of either indicates improper purification. For adeps lanæ

hydrosus it is advisable to employ the patented article "lanoline." It is unnecessary to refer at any length to the uses of this ointment basis. It has been proved experimentally and clinically that it is decidedly superior to mineral and other animal fats for the preparation of ointments which are intended to be absorbed by the skin, and pharmaceutically it has the great advantage of keeping certain substances, such as the mercurial salts, longer unchanged than these others. Germs cannot live in it, as it contains nothing upon which they can feed. It is, therefore, aseptic. The objection to lanoline is that it is somewhat sticky, but this property is counteracted by mixing it with a third of its weight of white vaseline, this forming the unguentum lanolini suggested by Hielbing. This ointment is equally capable of taking up a large volume of water.

Lanoline may take the place of other bases in the preparation of ointments, but it should be noted that, as it is unacted upon by alkalies and acids, it will not serve as a substitute for any fat which requires to be saponified, nor will it serve for the preparation of citrine ointment, although it may be used for diluting it. For the emulsification of lanoline all that is necessary is a little soap, as in the following formula:—

Lanoline .. .. .	5 drachms
Distilled water .. .. .	10 "

Warm the water slightly, and rub the lanoline with it; during the rubbing add—

Powdered soap .. .. .	15 grains
Dissolved in	
Distilled water .. .. .	10 drachms

And after these have been mixed thoroughly, gradually add distilled water until 12½ oz. of the emulsion are obtained.

When any other ingredients are prescribed along with lanoline the foregoing process may be employed, the additional substances being added just before the last portions of water. The emulsion is none the worse if a little borax is added at the end. Lanoline makes a very good pill excipient for such articles as permanganate of potash and citrate of iron and quinine.

#### Adonis Vernalis Folia. Leaves of False Hellebore.

This herb was rather extensively used as a substitute for digitalis a few years ago. It is a heart tonic, and under its use the cardiac action becomes regular and more powerful, especially when there is mitral and aortic regurgitation. Its activity is due to a glucoside, *adonidin*, which may be compared with digitalin, but it is not so powerful. The dose of the powdered herb is from 2 to 6 grains. A fluid extract is generally employed. Of the glucoside the dose is from ½ to ¼ grain in pill.

#### Æthyl Bromidum. Bromide of Ethyl. Hydrobromic Ether. C<sub>2</sub>H<sub>5</sub>Br.

This ether is official in the French Codex and German Pharmacopœia, and has been used solely as an anæsthetic. About 15 minims of the ether suffice to produce anæsthesia. It is also used for producing local anæsthesia. As bromide of ethylene has with fatal results been dispensed for it on the Continent, and as ethylene bromide has a chloroform odour, care should be taken to see that the article used is the right thing. Hydrobromic ether has a specific gravity of 1.420, and it boils at 104° to 105°. It has an ethereal odour.

#### Æthyl Iodidum. Iodide of Ethyl. Hydriodic Ether. C<sub>2</sub>H<sub>5</sub>I.

This ether was discovered by Gay Lussac in 1815, and is official in the French Codex, but it has only been in use in this country for four or five years, and that mainly as an inhalant for bronchial affections. The ether is made by the action of iodine on alcohol in presence of phosphorus. The Codex proportions are equal weights of alcohol and iodine, and amorphous phosphorus equal to a tenth of the combined weight. These have to be allowed to react for twenty-four hours, then are distilled and dried. The Codex gives 1.970 as the specific gravity of the ether, but 1.945 is nearer the mark. The ether dissolves readily in alcohol. It decomposes very quickly, that being one of the reasons for its usefulness as a therapeutic agent, the system readily

absorbing the iodine from it. For chronic bronchitis, asthma, and the relief of dyspnoea it is given by inhalation in doses of 5 to 10 minims. It is advisable to dispense the liquid in glass capsules, each containing a dose, which can be broken as required. In this way the decomposition of the medicine is prevented. Squire states that "the change in colour may be prevented by putting in the bottle a globule of mercury, also by adding to each ounce vial 5 c.c. ⅕th solution of soda, which will absorb any free iodine which may be formed."

#### PETROLEUMISED TURPENTINE.

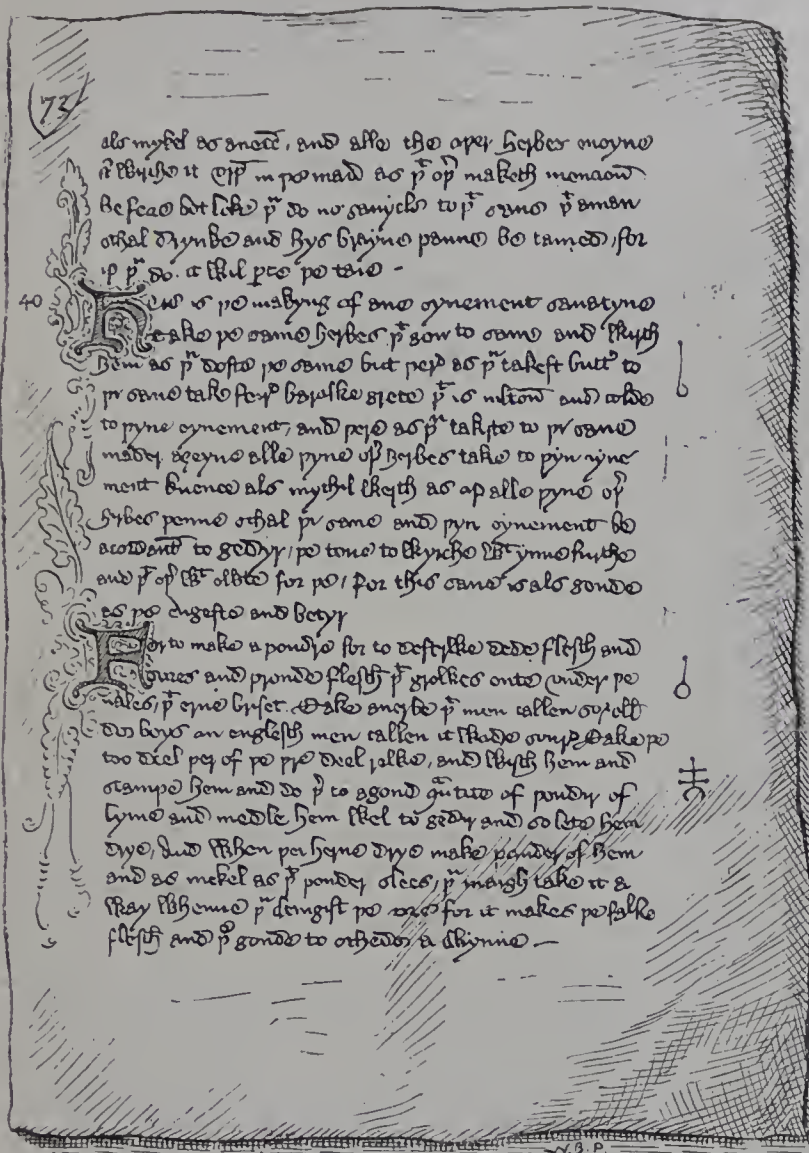
WE have mentioned from time to time that American turpentine is now, in many cases, adulterated with petroleum, and in our issue of July 12 last directions were given for detecting the adulterant. Nothing definite as to the method of mixing the two oils has been published until recently, when Mr. A. H. Slocomb, in a communication to a Cincinnati Association, stated that the matter is the subject of a United States patent. We gather from the report in the *Druggists' Circular* that for years the "inventor" had been carrying on the distillation of mixtures of turpentine and petroleum in the backwoods clandestinely and surreptitiously, when he conceived the idea of patenting the process, and he did. Strange to say, in the specification it is claimed that both mineral and vegetable oils are "hydro-carbon," that by distilling the "hydro-carbon" with crude carbon in the same retort the resultant product is pure spirit of turpentine. Mr. Slocomb went to the inventor and asked him for a sample of his product for analysis, but he refused, nor could a sample be obtained elsewhere.

It is within Mr. Slocomb's knowledge that a great deal of this stuff has been sold, and has passed inspection in the Union Naval Store Yard of New York, in barrels, and sold as pure spirit, although hundreds of barrels have been rejected in Cincinnati on testing with the hydrometer. There are four distilleries manufacturing large quantities of the product, and they ship the stuff to Philadelphia, where it sells along with pure spirit of turpentine. It is a very difficult thing to suppress, and the legitimate producers of the South are equally interested with the honest dealers and consumers in the North and abroad. They must unite their efforts and put it down. Mr. Slocomb knows of one railway station where, in two or three months, fifty barrels of petroleum were shipped weekly, to be mixed with spirit of turpentine according to the patent which he believes to be worthless, and, speaking about how the process works, he said that he added to five barrels of crude turpentine (which is enough to make 30 gallons of pure spirit) 15 gallons of 150 test petroleum; a lower kind of petroleum does not answer the purpose, because it explodes the still. This made 42 gallons of distillate. Petroleum costs 12c. a gallon, and turpentine sells at 40c. a gallon, so the difference, Mr. Slocomb thinks, is a constant temptation to parties to engage in the business, especially where their product is governed by United States patents; and the business has shown a great disposition to spread.

Regarding tests, Mr. Slocomb said that the rate of evaporation is a good indication. If two or three drops of this spirit, containing 28 per cent., are put on a watch-glass and compared with the same of pure spirit, it is found that the pure evaporates perhaps ten times quicker than the impure product. But the hydrometer is the simplest means of making a practical test. The hydrometer indicates in two samples such as those referred to that pure spirit at 65° F. has a specific gravity of 0.866. The product containing 28 per cent. of adulteration has a specific gravity of 0.850; if anything falls below 0.863 it may be considered adulterated. Our contemporary, in referring to the matter, states that they know that turpentine of very doubtful quality has found its way into the retail drug trade of New York. We have not heard of any being found in this country, but it would be well for chemists to look out for it.

CORK-CUTTERS of the Eisenbach district in Germany are miserably paid. This is a home industry, and a whole family of five can only earn from 5s. to 8s. per week.

## REMNANTS OF ANCIENT PHARMACY.



and as mekel as that poude slees (slays) thou maigh (may) take it away whence thou clougst (? cleansest) the(e) ore for it makes the falcic (= diseased or discoloured) flesh and the goude to shedde & —



texture, found in the convents of Italy, and decorated in gold and colours, a lengthy prayer or invocation may be met with.

In this journal of January 10 our Paris correspondent sent us some details of a very interesting old manuscript volume of medical pharmaceutical and alchemical formulae in English, which had been discovered in the library of the Paris School of Pharmacy. Experts estimated the periods at which it was written for it is evidently a collection of writings done at different times—as between 1200 and 1500. A photograph of one page has been sent to us, and we have had the annexed fac-simile of it, a little reduced in size, reproduced. Mr. C. C. Bell, of Epworth, who has made a special study of old English, gives us the following as his reading of the page as far as he can decipher it from the facsimile. The words printed in italics Mr. Bell is doubtful about, and there are a few blanks:—

"Also mykel as , and alle the other herbes *inoyne* and wirche it vpp in *pomad* as that other maketh *mencon* *befere* bot loke thou do no Sanycle to that *sau* that a man *shal* drynke and hys brayne thanne (or panne?) be tamed, for if thou do it wil parte the taie.

Here is the making of ane oynement sarraive. Take the same herbes that gon to *same* and wirch hem as thou doste the same but *there* as thou takest butter to thi sune take *feire* barowe grecc that is and oldc to thyn oynement, and there as thou takest to thi sane mader ageyne alle thyn other herbes take to thyn oynement. Avence (avens) als mychil werth as of alle thyn other herbes thenne shall thi sane and thyn oynement be accordant to gedyr, the tone to wyrche withynne furthe and that other withowte forthe, for this sane is als goude as the digeste and betyr.

For to make a poude for to destrewe dede flesch and sores and proude flesch that growes oute under the nales, that erne briset (are braised). Take an erbe that men callen sorell deshois an(d) englysh men callen it wode soure [an old name for *oxalis acetosella*]. Take the(e) too deel ther of the thre deel rewe and wirch hem and stampe hem and do there to a goud quantite of poude of tyme and medle hem wel to gedir and so lete hem drye, and when thei herne drye make poude of hem

THE adjoined illustration will be self-explanatory to every china-maniac who loves "a bit of blue." The vases shown in the drawing were for three generations in a family of Yorkshire doctors, and did more or less service down to a recent period. Probably they date from the seventeenth century, when the remedies indicated by their labels were recognised by the London Pharmacopoeia. Ung. diapomp. may have been the forerunner of our nng. zinci., as it contained lapis tutia (impure oxide of zinc) with other metallic bases. Ung. pomat. was then literally an "apple ointment." The spouted jar for ox. scillit. takes us back to the use of the genitive plural of this drug in Latin, a reminiscence of which we still retain as squills in English parlance. The rather crude design on the jars is deep blue, the white ground is tinged with the same colour, and the glaze is freely cracked. On jars of this shape, but more china-like in lengthly prayer or invocation may be met with.

THE PHARMACY ACTS AMENDMENT BILL.  
MR. CARTEIGHE IN THE NORTH.

CONFERENCE IN EDINBURGH.

THE largest gathering of chemists that has ever taken place in Scotland assembled in the library and museum of the Society's house on Friday, January 23, the board-room, in which meetings are usually held, being quite inadequate for the occasion. There were upwards of 150 present. The hour of meeting was 8.30 p.m. Mr. Carteighe was present half an hour earlier to confer with anyone who desired information in regard to particular points in the Bill.

At 8.30, on the motion of Mr. Gilmour, the chair was taken by Mr. J. L. Ewing (of Messrs. Duncan, Flockhart & Co.), in the absence of Mr. J. R. Young, J.P., who was to have presided, but having caught a chill, was unable to attend. Apologies for absence were read from Mr. Young, ex-Provost Watt (Haddington), &c.

The CHAIRMAN said he had to express his thanks for the honourable position in which he had been placed. He deeply regretted the absence of Mr. Young. His age, his great experience in public affairs, and his past services to the Pharmaceutical Society, especially to the North British branch, all indicated him as the most fit person to occupy the chair that night. He was afraid they would miss his wise counsel, and he was sure they all wished him rapidly well again. The duty of introducing the President of their Society was, he was happy to say, an easy one. (Applause.) The Society had had in the past many eminent presidents, but he did not think that any of these had excelled their present chief in what he might term "go." (Laughter and applause.) They were much indebted to him for his present visit, especially at this season, and in such inclement weather, and he hoped he would be none the worse for it. One word of caution he might give. If their President felt their reception cold at first, he would remind him that Scotchmen were proverbially cautious, and somewhat sceptical, as regards improvements in legislature. If he convinced them that his projects in that direction were right, he (the chairman) could assure him of their loyal support. He would refer to two points, although he would not express any opinion on them. The first was the question of the qualified master and the unqualified servant, and the second was that of the unqualified master and the qualified servant. He had great pleasure in introducing Mr. Carteighe, and asked for him a courteous and attentive hearing.

Mr. CARTEIGHE was most enthusiastically received. He said his first duty was to thank the chairman and his colleagues in Edinburgh for doing him the honour to ask him to make a few remarks regarding the proposed Bill. After pointing out that the Council of the Pharmaceutical Society had no legislative powers, and that its function was to carry out certain responsibilities which had been vested in it, he proceeded to say, that while they were a part of the government in regard to the examination of persons who presented themselves for certain qualifications, they were at the same time a Society voluntarily desirous of working in harmony with the whole trade and improving their position educationally and otherwise. Their first duty was to consider the safety of the public and not the care of their own pockets. Whenever they sought to obtain further powers they must satisfy members of Parliament and the Government also that what they sought was essentially in the interests of the public. Dealing with the clauses of the proposed Bill, Mr. Carteighe spoke of the desirability of the Preliminary examination being passed at the commencement of apprenticeship, and the advantage to the student of having the qualifying examination divided into two parts instead of burdening the candidate, as at present, with a multiplicity of subjects in one day. The expenses would not be greater than at present. In all the great cities facilities for study existed; in places where no such facilities existed the Society would be disposed to subsidise or assist teachers. These teachers might very well be pharmaceutical chemists, than whom he thought they were not likely to get more competent men for the purpose. Referring to Jacob Bell's visit to Edinburgh forty years ago he expressed satisfaction at addressing a meeting of chemists in the Society's own house—

a building which he hoped was doing good to everybody in the trade. Then followed a summary of previous attempts at obtaining legislation, and the speaker deplored the fact that three-fourths of those on the register were outside the pale of the Society. The Society had to be cautious because it was weak. The working man paid his 4*d.* per week into his union, and did not ask what he was to get for it. The chemist and druggist did not to any extent lay aside his 4*d.* a week, and when he did he scarcely trusted the men whom he elected to work for him. It was therefore apparent that it was not easy to work on these terms and they had to mind what they were about. Clause 6, which deals with the consolidation of the Society, he said, was designed to promote harmony among all the adherents of the Society. In clause 7 they asked for the exclusive right of compounding prescriptions, and he hoped that if the Council were supported by the trade they might possibly add to it the compounded preparations of the B.P. With regard to simple drugs he thought they would admit that it was useless to attempt to obtain exclusive right. There was a great deal in this clause for their advantage; he hoped more than was apparent at first sight. He thought it judicious not to go into details in regard to that, in case he might only be preparing the way for opposition by interested parties. Some had difficulty with regard to this clause on the personal supervision question. He thought "personal supervision" should be omitted as a means of simplifying the clause. The object of this, as of previous Bills, was the public safety. Lastly Mr. Carteighe referred to the mania of the day—the partiality for company arrangements, in which philanthropists, statesmen, civil servants, and others took part. Many of these were promoters of such companies, not because they wanted cheap articles themselves, having ample means, but because they entertained the idea that it was doing good to reduce the cost of articles to others whose income was less. They might ask members of the House of Commons who held such views to assist them in shutting up these companies, but it was not to be expected that they would entertain the request. Judges had indicated their opinion that it was safe for the public if in these companies poisons were handled by a registered man. They might ask to have them regulated, but to attempt to shut them up was, he thought, futile. The powers they had in the existing Act gave them a certain control over them, and some "bogus" companies they had shut up. If too much were attempted in the Bill in this direction matters might be made worse rather than better. He counselled the propriety of starting with a modest Bill, and if circumstances were favourable an amendment or two might be got in should it ever reach committee. (Prolonged applause.)

Mr. J. B. STEPHENSON proposed:—

That this meeting approves generally of the Pharmacy Acts Amendment Bill, and is of opinion that the Council of the Pharmaceutical Society deserves the support of the entire trade in its efforts to promote further legislation in the interests of pharmacy.

He said he had no objection to what was in the Bill. So far as it went he concurred. The regulation as to the Preliminary examination was excellent; to the curriculum proposal no exception could be taken. The day was past when they could resist an attempt to systematise the education of the coming pharmacists. The consolidation and jury clauses, Mr. Stephenson said, were deserving of support. When he said this much, however, his difficulties began. He had been much impressed by the force of their President's arguments, but he was not convinced. It was on the fundamental points he differed. He did not dream of getting protection for the chemist, but he was concerned for the protection of the public. Such protection was the principle on which the 1868 Act was founded. That Act had been practically nullified. He wanted it reinstated to fulfil its original intention. A recent interpretation of that Act by the House of Lords had indicated that the qualification therein referred to might reside in the servant, and not necessarily in the master. That to his mind separated qualification from responsibility. The servant could not be the responsible person; therefore, he argued, qualification and responsibility should be associated. The servant could not exercise his responsibility; he must do as he was told. He had in his mind a very good illustration of what he was saying. In regard to the widows clause, he thought it was—

an exceptional case, for there the manager had to superintend the business and perform all the details which a master would have to do, thus being virtually the master.

Mr. JAMES MACKENZIE seconded the resolution. He suggested that in clause 7, after the word "prescription," the following should be added:—"Unless the name or names of such persons shall be on the roll of the Pharmaceutical Society." He appealed to the trade to close up their ranks, and unite for their own protection. As to the Bill, were a little energy put into it he would accept it.

Mr. C. A. MACPHERSON moved an amendment in the following terms:—

That the meeting approves of the objects of the Bill, but considers that it requires re-drafting, requests Council to add a new clause providing, first, for the re-attributing the right of registered men only to the titles; second, to repeal the exemption in clause 16 in reference to the right of executors, &c., to carry on the business of a deceased chemist; and for the enactment of other provisions for the accomplishment of such repeal.

Mr. Macpherson was proceeding to speak in support of his amendment, but he appeared to have mixed his notes, and while endeavouring to get them into sequence the audience became impatient, and the only remarks which reached the platform were suggestions regarding verbal alterations in the Bill.

Mr. CARTEIGHE remarked that the phraseology of the Bill would be seen to by a competent legal authority, and he would not trouble about that if he had any suggestions to make.

Mr. CLAUDE F. HENRY said it was in the knowledge of many at the meeting that certain limited companies now used the titles referred to in Mr. Macpherson's amendment. He thought they were important, for they had a certain value in the public mind, and were, in his opinion, worth an endeavour to secure their use only by legitimate chemists.

Mr. NESBIT (Portobello) supported the motion before the meeting on the ground that if it became law it would be of undoubted value to pharmacists.

Mr. GILMOUR said he would like to ask if there were any chance of affiliating the curriculum to any university scheme.

Mr. DAVID McLAREN said that before separating they should show by their votes that the Council of the Society had moved in the right direction. The principle of the Bill was to make it necessary that every shop should be in charge of a qualified person. That was all the public safety needed. The public demanded that the person from whom they got drugs should be worthy of confidence.

Mr. CARTEIGHE, in reply, said he was personally in favour of deleting the widows clause, but he believed the majority of the trade were in favour of its retention. It was the stumbling-block in dealing with companies. One never knew how lawyers would interpret an Act till a case came into court. This Bill they did not regard as final; from time to time they hoped to add to it. Referring to Mr. Gilmour's question, he said suggestions had at times been made for some association with universities in regard to pharmaceutical qualifications. He thanked the meeting for its cordiality and good feeling.

Mr. MACPHERSON having withdrawn his amendment, the motion was carried unanimously amid much applause.

Mr. NOBLE moved a vote of thanks to Mr. Carteighe.

Mr. CARTEIGHE replied, and said he had been very kindly and considerately treated during the week.

Mr. STORRAR moved a vote of thanks to the chairman, who throughout the meeting conducted the business in first-rate manner.

The meeting broke up at 11.20.

#### DUMFRIES.

On his way to Carlisle Mr. Carteighe paid a passing visit to Dumfries on Monday, and met with the chemists of the town and district in the forenoon at the Station Hotel. He was accompanied by Mr. Martindale, of London, and both delivered brief addresses explanatory of the Pharmacy Acts Amendment Bill. Mr. Joseph Ewing presided, and there were nine other chemists present.

In introducing the business the CHAIRMAN spoke of the great advance which had been made in pharmacy within his recollection, remarking that fifty years ago it was quite a

common thing for a boy to use a lancet, it being thought that every person should be bled in the spring—(laughter)—and that the three agents then employed were calomel, opium, and bleeding. He spoke with approval of the educational clauses of the Bill, and expressed the conviction, that in a short time, such a change would be made in the curriculum of secondary schools in the way of giving prominence to practical science that their apprentices would be able without difficulty to get the necessary teaching in their own town.

Mr. ALLAN, secretary of the local branch, read a letter of apology for absence from his partner, Mr. R. B. Carruthers.

Mr. CARTEIGHE, in the course of his address, said the tendency to teach elementary botany and chemistry in the schools was so strong now that the Council thought they should put these subjects in the Preliminary examination. He discussed the provisions of the Bill on similar lines to those adopted at previous meetings in Scotland, pointing out incidentally that it would scarcely be possible to enforce a provision, such as some Scotch members desired to see enacted, that no chemist should take an apprentice until he had passed the Preliminary examination. In centres such as Dumfries, he suggested they would probably have at some of the schools or among themselves one who could undertake the teaching of chemistry, and one of themselves, he had no doubt, was quite able to teach botany and materia medica. If they wanted a little preliminary help in the way of apparatus, the Pharmaceutical Society would be happy to supply it. Under the present hurried system of examination, he stated he was convinced that many passed who had not really fulfilled the condition of three years' dispensing or pupilage; and when all the subjects were taken at once, it would be impossible to find this out without extending the work over a week instead of crowding it into one day. He also dwelt on the importance of leaving no chemist and druggist an excuse for remaining outside the Society, and of thus securing a strong organisation to safeguard their interests. Regarding clause 7, he was sure the medical profession, if approached in a proper spirit, recognising the danger resulting from the competition of unqualified persons, would be glad to support the chemists in their effort to obtain the statutory right to dispense medicines as well as poisons; and he was of opinion that medical practitioners would as a rule be glad to be relieved of the dispensing work. He pointed out also the practically insurmountable difficulties in the way of stopping trading by companies, and said nothing but the personal qualification of the vendor would meet the case.

Mr. SUTHERLAND moved a resolution approving of the Bill. It would, he thought, be a great advantage for the whole trade. In Scotland they were already practically under its educational provisions, the system of preparing for examinations being, indeed, more expensive than it would be under the Bill.

Mr. DANIEL, in seconding the motion, expressed the hope that the trading interest would not be overlooked in dealing with the educational.

The motion was unanimously adopted, and Mr. MARTINDALE having offered a few remarks, wine was placed upon the table, and the company toasted the health of Mr. Carteighe, Mr. Martindale, the chairman, and the secretary. Thereafter a visit was paid to the grave of Robert Burns in St. Michael's Churchyard, it being the day on which the anniversary of the poet's birth was celebrated throughout the country.

#### CARLISLE.

On Monday afternoon the registered chemists and druggists of Carlisle and district met at the County Hotel, Carlisle, to consider the Pharmacy Acts Amendment Bill, Mr. Carteighe and Mr. Martindale, of London, attending to discuss it with them. Mr. A. Thompson (Carlisle) presided, and about twenty were present, the towns represented including Carlisle, Penrith, Kendal, Annan, &c.

Mr. CARTEIGHE gave an address, recounting past efforts of the Pharmaceutical Society on behalf of the trade, and explaining the various clauses of the new Bill.

Mr. HALLAWAY (Carlisle), in the course of a short speech, proposed:—

That this meeting expresses its confidence in the Council of the Pharmaceutical Society, and pledges itself to support it in its endeavour

to pass the proposed Pharmacy Acts Amendment Bill. At the same time, this meeting suggests and would advise that the Council insert a clause making it compulsory for apprentices to pass the Preliminary examination before entering on their apprenticeship, when clauses 2 and 3 come into force.

In the discussion which took place, Mr. BOYD, of Annan, and others deprecated sending lads to London or some large centre for ten or twelve months to finish the course. It would tell hard with country apprentices, who were, as a rule, of a class who could not afford to go to London or anywhere else.

Mr. MARTINDALE advocated the establishment of classes in towns like Carlisle; and Mr. Carteighe said such a course would do away with the necessity of lads going to London.

Mr. NICHOL (Carlisle) pointed out that classes had been tried at Carlisle, and generally failed because failure was predicted for them in the first instance by those who were asked to become teachers.

The general opinion seemed to be that lads should pass a Preliminary examination before going to the trade, though Mr. Nichol's suggestion that it was desirable first to find out whether a lad liked the trade or not found some sympathy.

Discussion also turned upon the compounding question; and Mr. PATTINSON (Carlisle) asserted that it was an injustice to disfranchise all assistants who were not on the register, but who had had large experience, as it would also be a hardship to keep the master in the shop superintending every prescription.

Mr. HALLAWAY pointed out that the assistants Mr. Pattinson alluded to were already disfranchised by the law.

The motion was ultimately divided into two, the first part being carried, with two dissentients. The latter part was also carried, there being three dissentients.

#### FRENCH PHARMACEUTICAL NEWS.

(From our Paris Correspondent.)

PHARMACY STUDENTS must in future produce a certificate of revaccination before they will be allowed to matriculate or take out their quarterly lecture ticket.

BORACIC ACID AS A MEAT PRESERVATIVE.—The Seine Council of Hygiene has been consulted by the Prefect of Police on the question whether the meats imported from Odessa, and preserved by means of boracic acid, may be allowed on the market without danger to the public health. The Council, on discussing the question, agreed that the meat should not be allowed to be consumed if it is a fact that boracic acid penetrates throughout the whole of the substance. But as there is some uncertainty about that, a number of chemists aver that the acid goes no further than the surface of the meat, the Council have appointed a committee to make the chemical analysis necessary to settle the point. The committee consists of Professors A. Gautier, of the Faculty of Medicine; Schutzenberger, of the Collège de France; Jungfleisch, and Riche, of the Collège of Pharmacy; and Nocard, of the Alfort School.

PROFESSOR VERNEUIL'S OPINION ON KOCHINE.—After a fair trial in his service at the Hôtel Dieu, Dr. Verneuil has come to the following conclusions respecting the value of Kochine for detecting tuberculosis:—(1) Kochine as a detecting test is uncertain, irregular, and of very moderate diagnostic value. (2) When it does act, it considerably aggravates the local lesions already existing. (3) This aggravation, unexpectedly varying in degree, may have on the patient alarming results, and may even cause death. (4) Its detecting action, as a means of investigation, is so dangerous that it should be employed only in case it were indispensable, and such is not the fact. (5) In the immense majority of cases it is quite useless, as diagnosis can easily be made with the usual means of clinical and bacteriological examinations. (6) In the very rare cases where these modes of inquiry prove ineffectual the lymph's detecting action might aid in diagnosis; but it would be preferable to avoid it, its dangers and uncertainty not being compensated by adequate advantages. (7) An incomplete diagnosis under such circumstances is better for the patient than a more precise one from which therapeutics can receive no clear indication and no efficient remedy.

A PERTINACIOUS CHEMIST.—A. Schlumberger, the agent here for Kolbe's salicylic acid, and a chemist of some note, has invented a new style of bank-note, which he considers completely counterfeit-proof. He tried to sell his process to the Bank of France, saying the present notes can be imitated too easily. The bank would not listen to his proposals, so Mr. Schlumberger, to convince the old lady of the errors of her ways, published in the last number of the *Moniteur Industriel* very good imitations of the 50-franc *billets de banque*. The two tints—namely, pink and blue—were there, and altogether the appearance was quite apt to deceive the unwary. Moreover, at a public lecture delivered a short time before, Mr. Schlumberger described his methods for obtaining photo-plates of the two colours hitherto supposed to be proof against reproduction. Only, to remain, as he thought, within the law, he made some alteration in the wording of the note, such as "Cinquante liards" instead of "Cinquante francs," omitting the signatures, and changing other particulars. Some 30,000 copies, it is said, were then issued, whereupon the bank entered a complaint against the imitator, and caused the seizure of all the plates and prints that could be found. It is known, however, that quite a number were sent abroad in the *Moniteur Industriel*. The bank declines all transactions, and means to let the law take its regular course. According to existing statutes, it appears that not only counterfeits, but all colourable imitations of bank notes, are penal offences, and guilty parties have been punished.

A NEW PHARMACY SOCIETY.—Under the name of "Société française des Pharmacies coloniales," a new association has been formed at Blaye, near Bordeaux. Its object is to facilitate the establishment abroad of French pharmacists deserving its patronage and possessing the requisite scientific, commercial, and industrial qualifications. To this effect, the Society will recommend either to its correspondents or official French agents such pharmacists as may have means sufficient to take care of themselves, and grant free passage, and, if necessary, pecuniary assistance, to those who may need it. The debt thus incurred will be paid up at the beneficiaries' convenience. The Society's Council will include, among other members, the President of the Bordeaux Chamber of Commerce, and one professor of the Bordeaux Faculty of Medicine and Pharmacy. The Secretary of the organising committee is M. Capmartin, at Blaye. There is in this project a good deal more than might appear at first sight. The readers of this journal are aware that two Austrian pharmacists have lately visited the Levant to find what new openings there may be for dispensers of their own nationality. Besides, in French colonies, protectorates, and foreign countries, usually under French influence, Germans and Italians have been making unusual efforts, not always unsuccessful, to establish new pharmacies. And, indeed, in the race the English have not been found to be the last. Now the French find it is high time to take some steps to at least hold their own in places where they ought by right to predominate.

PHARMACEUTICAL INK.—Pharmacist L. Kauffeisen has proposed a new sort of ink, which he considers exactly adapted to the needs of the pharmacist. It is as follows:—

	Grammes
Alizarin paste .. .. .	15
Carbonate of soda .. .. .	7
Extract of logwood .. .. .	25
Water .. .. .	1000

Dissolve the carbonate in a little water, add the alizarin paste, and, lastly, the logwood dissolved in the remainder of the water, and filter. Transfer the liquor to a rather large bottle, drop in a few nails or iron filings, and expose the whole to the sunlight for about a week with occasional shaking.

The ink is now finished. It only needs decanting, and the addition of 4 or 5 grammes of carbolic acid to insure its keeping. In case the ink should be needed at once, 4 grammes of sulphate of iron might be substituted for the filings. A sufficiently black colour is thus obtained at once, but the filings afford a finer shade. The following advantages are claimed for the product. It is easily prepared, cheap, and keeps well; it never settles, since the colouring matters are dissolved, and not suspended. Taken altogether it stands well the rough usage of the shop, where the ink is only used

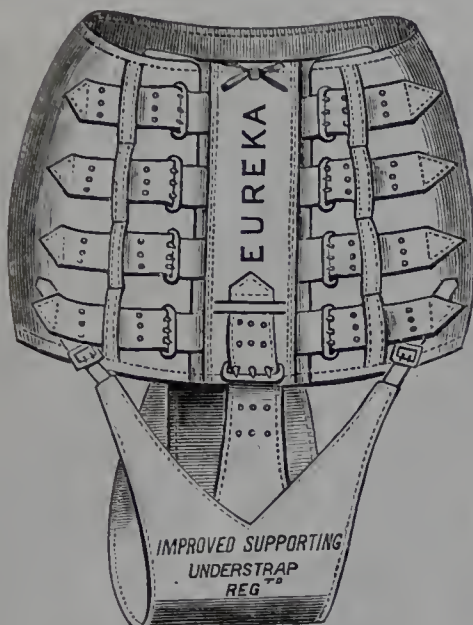
now and then, the inkstand left open half the time, and the pen seldom wiped. As it is not acid, but, on the contrary, slightly alkaliue, it does not corrode steel pens. It is unaffected by either light or water. Unfortunately, it is not proof against acids.

No.

## Notes of Novelties.

### THE "EUREKA" BINDER.

MR. VINCENT WOOD has devised a new obstetric binder (which will be known as No. 3), the advantage of which is that it is provided with a broad understrap capable of hold-



ing and retaining any antiseptic or absorbent material in cases of excessive hæmorrhage. The binder is plainly made of strong linen, and is well worth bringing under the notice of accoucheurs.

### NEW FEEDERS.

THE BABIES' FEEDING-BOTTLE COMPANY, of which Mr. A. W. Shirley is manager, make their *début* in our advertising pages to-day, and they have something good to offer. First, we may notice that they do not send out green-glass bottles, that colour being replaced by what they call demi-blanc, and that is almost white. Then all the fittings are made of sulphur-cured indiarubber, so that they are suitable for all climates. Mr. Shirley sends us a sample of the "Duplex" boat-shaped feeding-bottle. This, as will be seen from the



illustration, is of the old-fashioned boat shape, and is so made that it can be used as shown, or the tube can be removed and a teat attached to the screw glass-stopper, thus making the old-fashioned bottle which many people still prefer; and which Dr. Luff in this issue recommends.

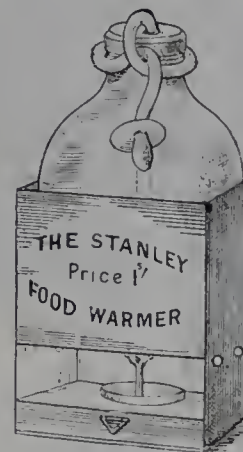
## LIBRARY

### WERNETH MALTED MARMALADE.

MR. WILLIAM GEDDES, of Oldham, has patented a combination of his Werneth extract of malt with orange marmalade, which he submits to the public through chemists and others as a table delicacy. The idea is a happy one, as the marmalade scarcely differs, if at all, in appearance from ordinary orange marmalade, and is decidedly as pleasant and toothsome an adjunct to bread and butter as marmalade itself. The combination is an appetizer as well as a digestive stimulant, and children are very fond of it. Of the virtues of malt extract we do not require to speak at this date. Regarded as a medicine, weakly folks do not, perhaps, take enough of it; but once a jar of Werneth malted marmalade is placed upon the table the extract takes its place as a food, and as chemists have the start with the extract, they should keep the grip of the article in its more extended consumption.

### A SHILLING FOOD-WARMER.

THE annexed illustration is sketched from Mr. H. C. Quelch's new food-warmer. It is a water-bath made to hold the



feeding-bottle, with an oil-lamp beneath so shaped that a night light may be used instead of a floating wick. Each warmer is neatly boxed, and makes a good shilling's worth.

**POISONING BY HYDROCYANIC ACID.**—The proverbial small boy is reported to have said that prussic acid is so strong a poison that a drop of it put on the end of a dog's tail would kill a man in a minute. This was coming it too strong, but old writers state that an animal may be poisoned by hydrocyanic acid absorbed through the mucous membrane of the eye. This has generally been considered to be equally strong, but a French physiologist has recently tried the experiment, and has found that dogs or rabbits are killed in this way in the course of a few minutes.

**THE REDUCTION OF NITRATES TO NITRITES** by seeds and tubercles has been the subject of a paper communicated to the Brussels Academy of Sciences by M. Emile Laurent, who has experimented on Indian corn, barley, peas, white lupines, broad beans and kidney beans, previously sterilised, but afterwards allowed to germinate. The crops obtained were immersed in a 1-per-cent. solution of potassium nitrate, and gave rise to potassium nitrite. M. Laurent explains that this is owing to something like what takes place in alcoholic fermentation: the living plants require oxygen, and they take it in from the nitrates, being deprived of the ordinary medium. This reduction of nitrates by the tubercles of the Jerusalem artichoke, radish, turnip, &c., by their petioles, and by the peduncles and fruits of different plants, has also been observed.

## SCIENTIFIC MYSTERIES.

SEVERAL years ago we published a collection of interesting experiments in chemical and physical science. These, with numerous additions and abundant illustrations, will be republished by us in good time for next winter, in such a book as chemists and druggists may sell freely with present and prospective advantage. We may add that we hold a copyright in the articles.

We append a few selections from the additional matter which we have in hand:—

## FROST IN SUMMER.

Very beautiful silky white transparent crystals can be deposited on the surface of a glass vase by confining in it a combination of 2 parts by weight of iodine with 1 part of cyanide of mercury. On rubbing these substances in a



mortar the powder, at first of a brownish colour, assumes a brilliant red tint, and must then be transferred to the vase, which must be securely corked and sealed. The crystals readily form themselves in great abundance.

## CHEMICAL FIREWORKS.

In a tube of green glass blown into the shape shown in the sketch place some oxalate of iron, powdered and

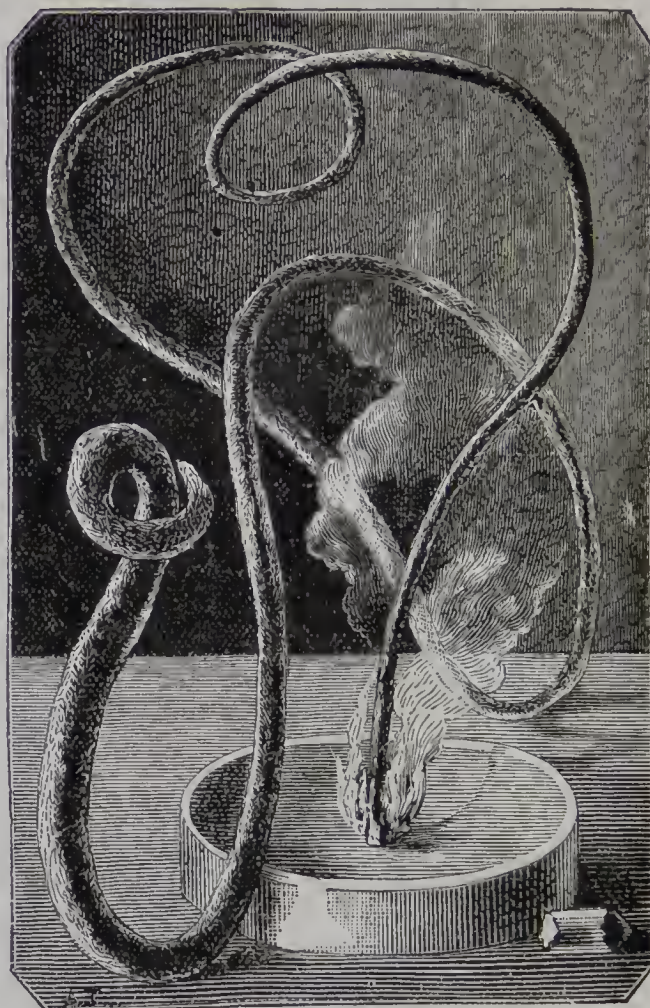


quite dry, heat it to redness, and pass a current of hydrogen through the compound. The iron will be re-

duced to a metallic state under the combined influence of the heat and of the hydrogen, and if the tube be then closed by means of a blow-pipe flame, and thus protected from the action of the air, it can be kept indefinitely. On breaking off the end of the tube by means of a steel nipper, and shaking out some of the powder in the dark, a beautiful rain of fire can be produced, the instantaneous oxidation of the reduced iron yielding this effect.

## PHARAOH'S SERPENTS.

These well-known chemical toys are little cones or cylinders formed of sulphocyanide of mercury made into a paste with a little mucilage of tragacanth, with the addition of about 5 per cent. of nitrate of potash. The sulphocyanide of mercury is made by adding sulphocyanide of potassium to a weak solution of acid nitrate of mercury, and collecting, washing, and drying at 212° the light white precipitate thrown down. The "egg" made from the sulphocyanide of mercury thus obtained must be carefully dried on a water-bath. To exhibit it, a lighted match is applied to the end

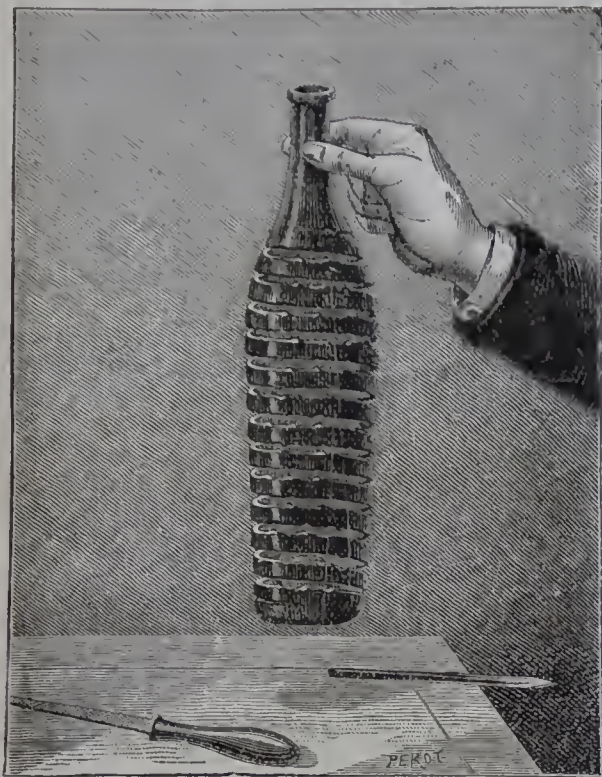


of the egg, on which the "serpent" unrolls itself to an enormous length. It must be remembered that the product is very poisonous, and should be burned as soon as the exhibition is finished. The vapours given out by the serpent are also highly poisonous, and care should be taken not to inhale them.

## A SPIRAL BOTTLE.

A carbon pencil invented by Berzelius provides the means of cutting glass vessels in any form or shape desired. This pencil is made of a compound of lampblack, 5 oz.; gum arabic, 2 oz.; gum tragacanth,  $\frac{3}{4}$  oz.; gum benzoin, 2 oz. Powder and mix all, and make into a paste with water. To use this for cutting glass it is formed into the shape of a pencil, made red hot, and applied to the vessel to be cut. The part to be cut is first traced with a diamond. A tumbler can be cut off at any desired point by putting oil into it to the level of the point to be cut, and plunging into the oil a red-hot iron. In a little while the part of the tumbler above the level of the oil can be readily broken off. By a little

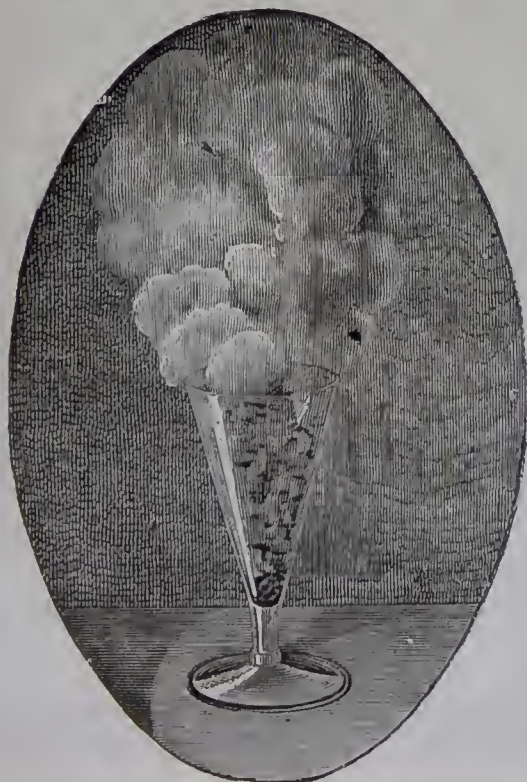
practice with the pencil and a glazier's diamond, it is quite easy to cut a champagne-bottle into the curious form re-



presented in the engraving. A parchment lining carefully fitted to the inside of the bottle, with some announcement written or printed upon it, makes a striking advertisement.

#### VAPOUR OF NAILS.

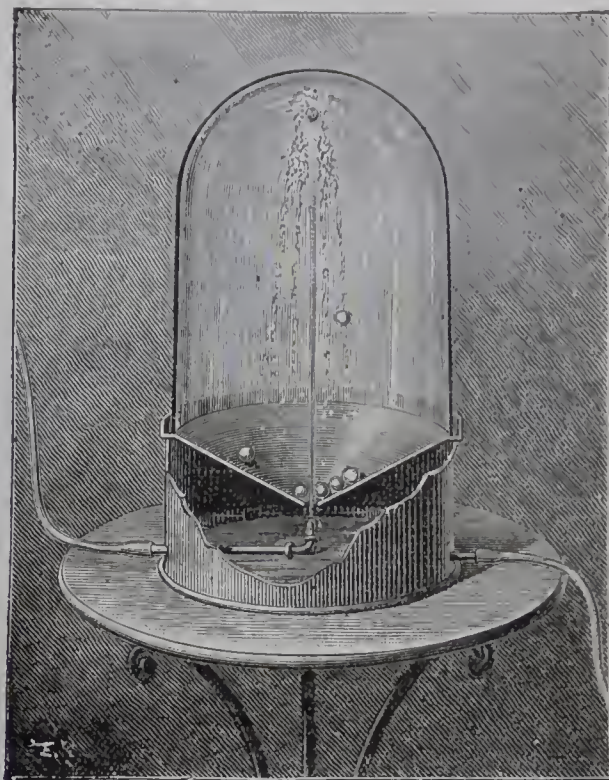
If, for instance, it is desired to exhibit effectively certain characteristics of chemical combination, this can be done by



pouring a little nitric acid on a few iron nails in a wineglass. The conscientious expounder will make it clear that the orange-coloured fumes are not, as might be assumed, the nails converted into vapour, and that these actually remain in solution.

#### THE DANCING CORKS.

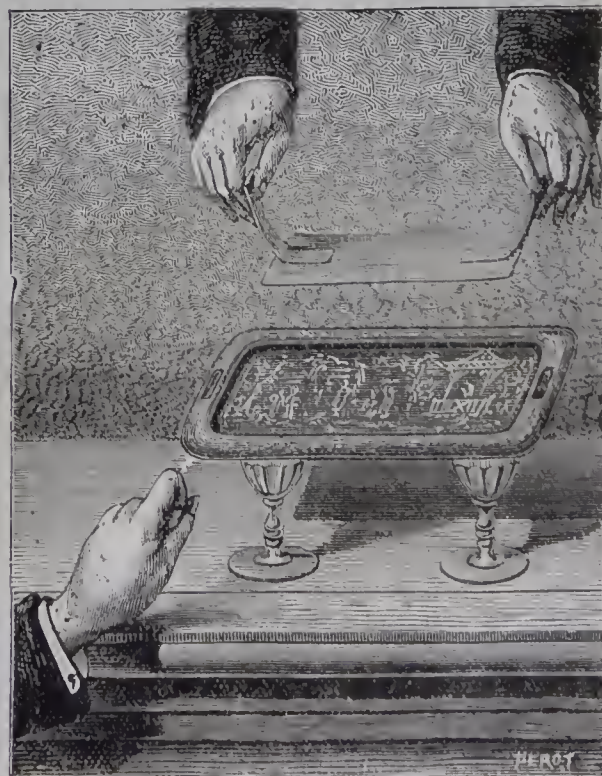
The design annexed shows the arrangement of a water-jet with cork pellets kept continually dancing in the column of water under a glass bell. This combination is an attraction in several of the filter-shops in London. A small pipe is



adapted from the water-supply, and is fitted as shown in a vessel somewhat of the shape of a spittoon. The cork balls as they fall on the sloping floor of the vessel necessarily find their way to the jet, and are at once carried up again by the current. Another pipe has to be provided to carry away the waste water.

#### A SIMPLE ELECTROPHORUS.

Place a tea-tray on two tumblers as shown in the en-

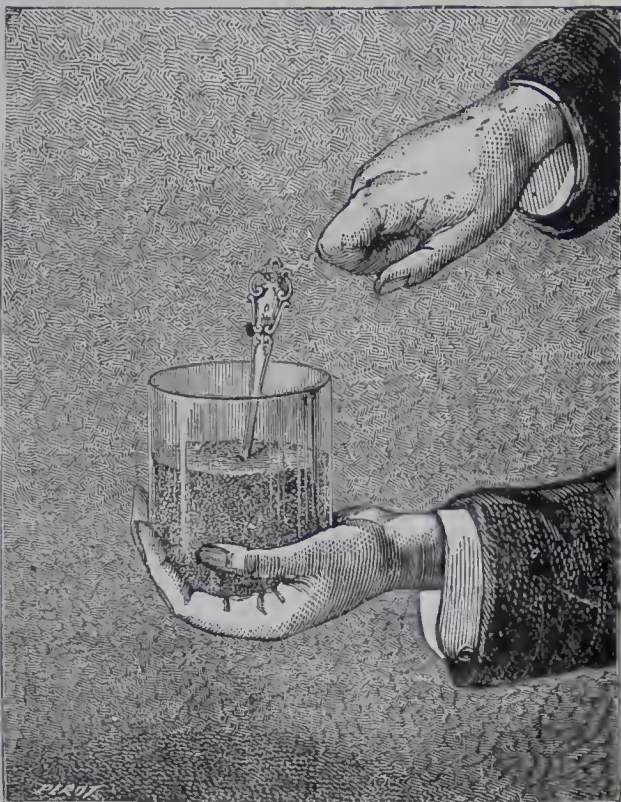


graving. Cut a sheet of thick brown paper to a size to fit the flat part of the tray. Attach bands to the paper by

sealing-wax in order to provide handles for it. The arrangement is now complete. To make it work, the sheet of paper should be first well warmed repeatedly, so as to get it perfectly dry. At last, when the paper has been thoroughly dried, and while it is still warm, lay it on a wooden table, and brush it vigorously with a hard and quite dry clothes-brush. Then, by means of the handle, lay the paper on the tray, touching the tray with the finger at the time; and at the moment of lifting the paper off, let another person bring his knuckle to the tray, as shown. A visible spark will be produced, and the experiment may be repeated seven or eight times. From this electrophorus a simple

#### LEYDEN JAR

can be charged as follows:—Fill a glass goblet half-full of shot and thrust a teaspoon into the shot. Everything



must be perfectly dry. The jar can be charged by bringing the handle of the spoon into contact with the tray as described in the last experiment, the spoon-handle being substituted for the knuckle. By taking several charges in this way, a spark can be given out from the Leyden jar to the tray, or to another conductor.

#### PRESSURE FROM BELOW.

The following is an easy experiment to prove that the pressure exercised by fluids is as great from below upwards as from above downwards. A disc of mica is held against the bottom of an ordinary cylindrical glass lamp-chimney by means of a piece of string attached to the mica disc. The chimney, closed at the bottom by the mica, is plunged into a vessel of water. The disc of mica will be retained in position by the pressure from below. On pouring water into the lamp it will be found that the loose mica support will not relax until the water in the lamp-glass has attained the exterior level.

#### PUSHING ITS WAY.

An interesting experiment, showing the effect of the pressure of the atmosphere, is to take an ordinary water-bottle with a neck too small to pass an egg through it. A sheet of paper is lighted and dropped into the bottle, and at once a hard-boiled egg, freed from its shell, is pressed into the mouth of the bottle so as to hermetically seal it. The combustion of the paper inside the bottle produces a partial vacuum, and the outside pressure of the atmosphere at once

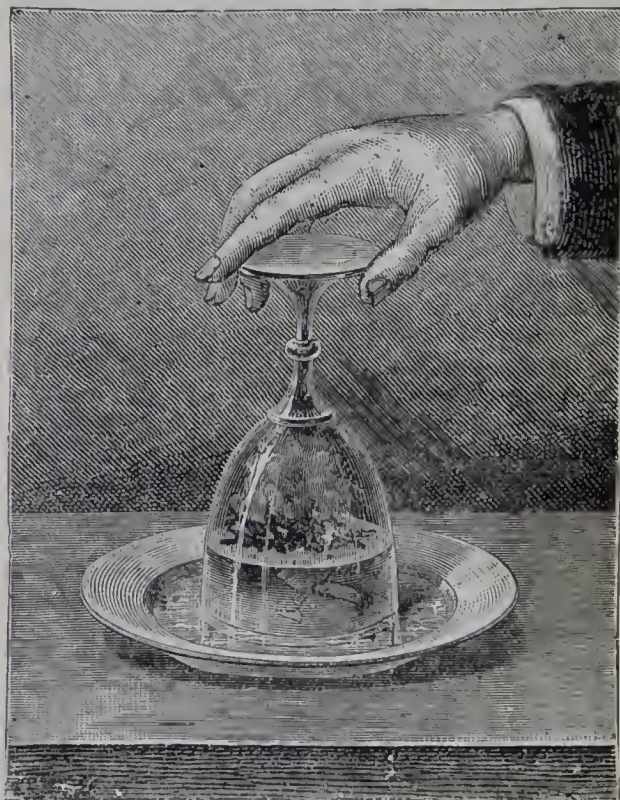
begins to act on the egg, pressing it through the neck. It elongates itself gradually, and shortly drops suddenly into



the bottle with a detonation similar to that which boys make when they burst a blown-out paper bag.

#### THE RISING FLOOD,

The experiment shown by the next engraving is another simple means of exhibiting the effect of creating a partial

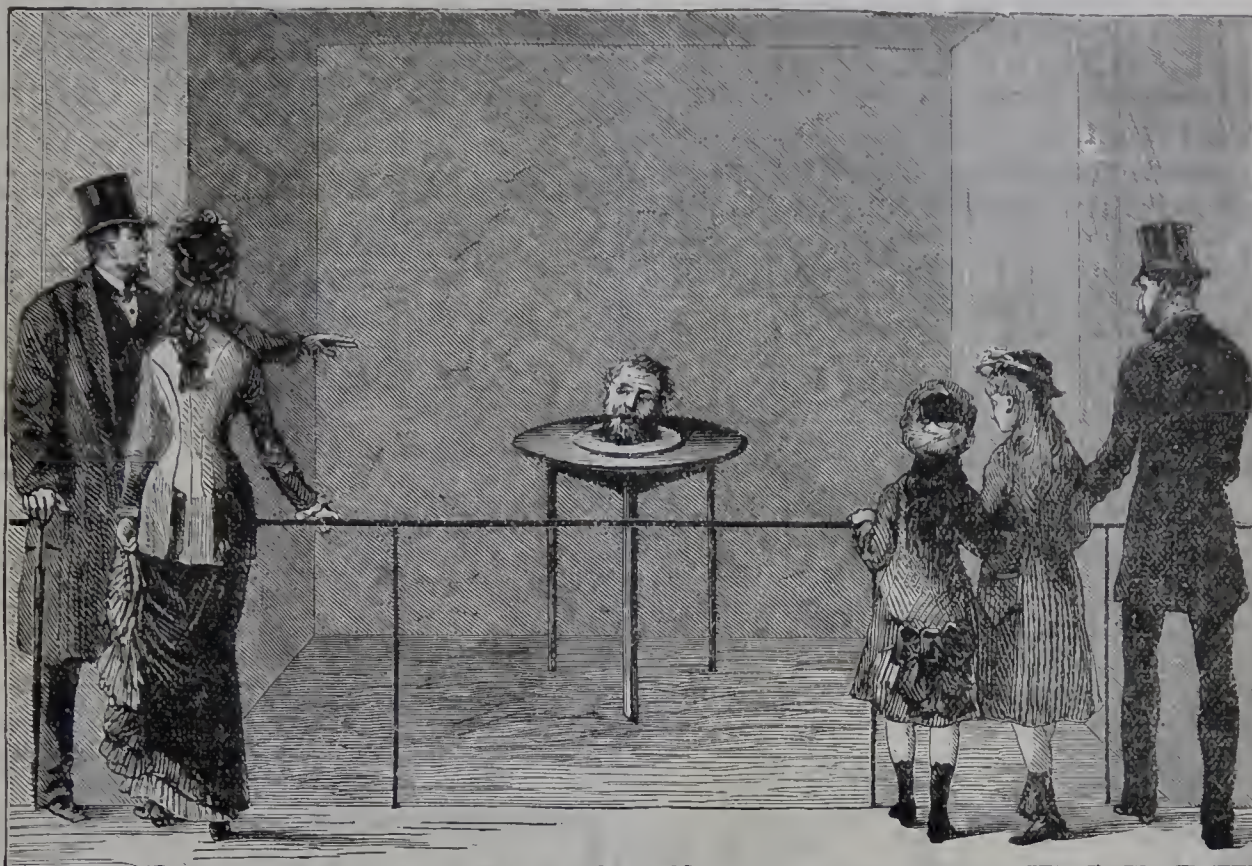


vacuum. A piece of paper fixed to a cork floating on the surface of water in a plate is lighted and covered with a tumbler. To the extent of the vacuum created the water will rise in the glass, in consequence of the pressure outside

## DECAPITATION NO MURDER.

Under the title of "The Beheaded Lady," or with some such description, a popular and very striking illusion is sometimes exhibited. The head of the lady or gentleman, as the case

in the annexed plate. In reality the person exhibited is seated, and the table and plate are mechanically fixed round his or her neck. The body and legs are concealed by squares of mirrored glass, formed by the legs of the table. These squares must be fixed at angles of  $45^\circ$  with the walls of the



may be, is shown on a neat little table, resting apparently in a dish or plate. It answers questions and is evidently alive. The disposition of the head and the surroundings are shown

room, and the walls, sides, and back must be of a homogeneous and dull colour. A half-light aids the illusion.

## WILLS OF DECEASED CHEMISTS.

The will of the late John Lindsay, of Biggar, Lanarkshire, chemist and druggist, has been proved at the Registry, Lanark. The will is dated November 5, 1889, and the gross amount of the personal estate is 2051*l.* The executors appointed were Catherine Lindsay, of Main Street, Biggar, wife of the deceased, and James Dunlop, M.D., now of Purfleet, Essex; but they refusing to act, it devolved upon the Registrar to appoint the said Catherine Lindsay as accepting executor nominate, with full power to administer and dispose of the said estate.

The will of George Young Sharpe, of 16 Lansdowne Road, Kensington, W., pharmaceutical chemist, who died on July 25 last, has been proved at the Principal Registry, Somerset House. The gross value of the personal estate amounted to 11,128*l.* 19*s.* 6*d.* The date of the will is September 25, 1889, and a codicil is attached bearing date November 19 of the same year. The executors are Frances E. Sharpe, the widow, Leonard Geo. Sharpe, son, and Geo. Wm. Steel, brother-in-law of the deceased gentleman. After legacies of 100*l.* each to the executors if they prove his will, and to his daughter Georgiana and her husband, the testator bequeaths all his real estate to be held in trust for his wife, and in the event of her decease for his son and executor, Leonard George. The income of certain stocks and shares he directs to be paid to his daughter before-named, with reversion to her children (if any) in equal shares; and on the decease of his wife, the trustees are empowered to invest 2,000*l.* out of the residuary estate for the benefit of his

grandson, the income to be paid for his education, and the principal on his attaining the age of 25 years. Under the codicil, after several gifts of a personal character, the testator bequeaths fifty guineas to the Benevolent Fund of the Pharmaceutical Society free of duty.

The will of the late Mr. Andrew G. Kurtz, chemical manufacturer, Grove House, Wavertree, who died at Aberystwith on September 20, 1890, has been proved, showing gross personalty of 257,698*l.* 13*s.* The executors are George R. Rogerson, John A. E. Rayner, and Roderick Rayner, who are directed by the will to offer for sale to the National Gallery Mr. Kurtz's collection of pictures at the prices which he paid for them. His collection of autographs is left to the British Museum, and his musical library to the Messrs. Rayner. To his cousin, Julia Williams Turner, he gives the use of his house at Penmaenmawr during her lifetime, with reversion to his goddaughter, Helen Susan Matthews. To Edward Waterworth and Henry Rawlinson the testator bequeaths 300*l.* each; to Julia Williams Turner, 500*l.*; to Susannah Kurtz Rayner, 1,000*l.*; to Helena Susannah Matthews, 10,000*l.*; and to the other children of Roderick and Susannah Kurtz Rayner, 5,000*l.* each; to the daughters of Hester Crompton, 3,000*l.*; to Martha Crompton, 500*l.*; and an annuity of 1,000*l.* to Julia Williams Turner, with the reversion in the capital set aside for such an annuity to Helena Susannah Matthews absolutely. His business as a chemical and alkali manufacturer, and the capital employed therein, with the freehold upon which the business is carried on, he bequeaths to John Andrew Edward Rayner. The residue is devised to his trustees upon trust to John Andrew Edward Rayner absolutely. The testator directs that Messrs. G. R. Rogerson & Co. are to be the solicitors for the trust.



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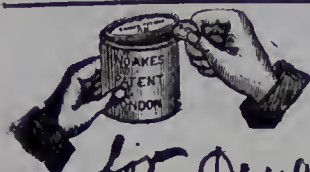
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CHEMISTS AND BEECHAM'S PILLS.

THE discussion which has figured lately in our pages  
consequent on a certain development of one of Mr.  
Beecham's actions for injunctions against chemists has  
rather astonished us; but it is likely—we regret to have to  
say it—to prove useful.

We have received a good many more letters than we have  
printed on this subject, and among them have been a cer-  
tain proportion boldly defending the sale of pennyworths of

other pills as Beecham's. Other correspondents, prefacing their remarks with a more or less grudging admission of Mr. Beecham's legal rights, have manifested an evident bias against him, leading them to accuse him and excuse their fellow-chemists with coincident injustice. We cannot bring ourselves to believe that there is any general inclination in this direction in the trade. To the vast majority of chemists, we suppose, the morality as well as the legality involved in this discussion is so obvious as not to be open for discussion. If it is not, we are all abroad on pharmaceutical ethics.

When X is asked for a pennyworth of Beecham's pills, and sells his own instead, he cheats the customer and he cheats Mr. Beecham, who, by the expenditure of money, has induced that demand. "The hurry of business" has been pleaded as an extenuating circumstance. But this excuse breaks down at a glance. It takes no longer to supply the genuine article than it does to give a substitute, and it takes less time still to refuse the transaction altogether. The substitutions appear, so far as the law-cases show, to have occurred entirely in the penny trade. The system of selling Beecham's pills and other patent medicines by the pennyworth seems to have grown to an enormous extent throughout the country since it came to be understood that the Board of Inland Revenue does not regard the practice under certain conditions as illegal. But it is doubtful whether such sales are generally, or even in a reasonable majority of cases, carried out with due regard to the conditions laid down. It has been stated again and again in this journal, and elsewhere more officially, that patent medicines retailed out in smaller quantities must not be sold unstamped in any box, bottle, packet, or other enclosure. As we understand the Somerset House interpretation of the law, the Act of Parliament requires as an essential condition of the liability to medicine-stamp duty that the medicine, whatever it be, shall be thus packed in some sort of enclosure. Mr. Alpe, in his "Handy-book of Medicine-stamp Duty," says expressly that "if the inclosure does not fall under any of the descriptions [named in the Act] the medicine escapes the duty;" and he goes on to say that merely wrapping up in paper, if the paper or bag is not sealed, gummed, or tied, or otherwise fastened, is not deemed "a packet or other inclosure," and is not liable to duty. It follows from this that a liquid medicine, which if sold in a bottle would be liable to duty, may be sold on draught or in the customer's own vessel without needing a stamp; and that pills or lozenges may be similarly retailed out in small quantities, if taken over the counter or merely twisted up in paper. But we take it that most of the sales of Beecham's pills by the pennyworth are made in boxes. Hitherto the Board of Inland Revenue has not looked closely after this infringement of the law; but they soon will do so if they suspect that this penny trade is defrauding the revenue, as, of course, it does if spurious pills which have never been enclosed by a stamp are supplied in place of genuine ones.

Makers are of course powerless in the matter. They may declare that no pills, unless supplied in their boxes, are genuine, but if it is legal to buy their goods, open them, and sell them out in small quantities, and if the customer is satisfied, there is no more to be said. But we should expect that in the majority of cases they would not be sorry to see the practice checked. Chemists and druggists need not object, and would assuredly make more profit in the long run if they were to set their faces against the custom.

A point has been made against Mr. Beecham's law-suits on the ground that the punishment is too heavy for the offence. This, it seems to us, is a subject worthy of a

moment's comment. A little consideration will, at all events, exonerate him from any blame in this respect. As he said in the letter we published from him on January 10, the proceedings have been costly to him as well as to the defendants. Legal business is expensive, but it was not Mr. Beecham who made it so. But some of our correspondents seem to think he might have discovered some cheaper course. To these it may be explained that there is no alternative to an application for an injunction except a criminal action. The adoption of such a course would certainly have called forth loud complaints, and it is, besides, a very uncertain and unsatisfactory method to pursue. There is always a strong prejudice against any trader who tries to use the police organisation of the country in the prosecution of his business. As to the charge of pouncing upon tradesmen who have almost accidentally sold some of their own pills for Beecham's, we think it right to state that we have reason to know that Mr. Beecham's statement in his letter was strictly true—namely, that proceedings have only been taken when evidence was obtained, by repeated purchases, of a systematic disregard of the maker's rights.

We have written this note on the text furnished by the case most prominent at the moment. But the moral applies to all similar transactions. The law is perfectly distinct on the subject, and the courts are very severe on attempts to benefit by another man's reputation or expenditure. In their laudable attempts to make the most of their own abilities and experience, chemists are perfectly justified; but we are sorry that the lesson should have been necessary to any of them that in thus pushing their interests they must pay due respect to property which has been created by other people's exertions.

#### DRUGGISTS' INTERESTS IN CHILI.

CONCURRENT with a period of almost unexampled peace throughout the Eastern hemisphere, social and political upheavals are agitating the two Americas from the Straits of Magellan upon the confines of the Antarctic regions to Behring's Sea in the North-west. For the moment public attention in this country, so far as it concerns itself at all with American questions, has strayed from the obscure and confused wranglings over the Newfoundland and Alaska fisheries, the new fiscal regimen in the United States, and the revolutionary outbreaks in Central America and on the River Plate, to the "land of length without breath," Chili, hitherto the one bright spot of political quietude and moderate progress among the turbulent States of South America. Who that witnessed the South American republics' brilliant, if somewhat belated, display at the Paris Exhibition of 1889 can have failed to be impressed with the glorious future within the reach of these favoured children of Nature, if they would but abstain from that fatal fondness for pronunciamientos and military dictatorships that has marked their career ever since, in the second decade of this century, Simon Bolivar and his coadjutors overthrew the Spanish dominions, and, one by one, the republics of South and Central America sprang into existence? Strange to say, the three States that have been most afflicted with revolutionary movements during the last twelve months are exactly those which, largely owing to their suitability for European immigration and consequent infusion of foreign blood among their inhabitants, were the most progressive States of South America, superior in every respect to their half-barbaric neighbours, where endless revolutions result in nothing but the supersession of one star-bedizened half-caste dictator by another.

In estimating the progress of the Chilean civil war and

the respective merits of the case of President Balmaceda and the insurgent forces, it is well to remember that nearly all, if not the whole, of the news thus far available has passed through sources under the control of the President's party. It may be that, after some further show of resistance, Senor Balmaceda will throw up the sponge in a manner somewhat similar to his late estimable contemporary of the Argentina; but whatever the ultimate result of the rebellion, it is certain that Chilean credit in Europe has received a severe shock, and that an injury has been inflicted upon the commerce of the country which it may take long to heal. The insurgents, who control the greater part of the naval forces of the republic, appear to have directed their energies principally to the blockade of the coast, aiming especially at some of the harbours in the south and in the extreme north, where the nitre districts, which yield a large proportion of the country's revenue in the shape of export duties on the nitrate of soda, are situated. If the revolutionary movement should prove of long duration, the foreign trade of the republic may become practically suspended, for the only feasible means of trading with Chile is by water. The last section of the trans-Andine railroad which will connect Valparaiso with Buenos Ayres has, we believe, been in a more or less active stage of construction for some years, but the link has not yet been completed, and the mountain roads across the Andes are useless for the purpose of carrying on an extended trade.

The foreign business of Chile is practically in the hands of four nations. According to the returns for 1888—which are the latest complete statistics available—the total imports of the republic represented in round figures were 13,000,000*l.*, of which 43 per cent. came from the United Kingdom, 23 per cent. from Germany, 10 per cent. from France, and 5 per cent. from the United States; or, to speak more correctly, were imported in ships sailing under the flags of these nations. As regards exports, the total value in 1888 was 15,000,000*l.*, of which 78 per cent. were declared as destined to this country, 7 per cent. to Germany, 6 per cent. to France, and 3 per cent. to the United States. The foreign trade of the country has grown from 11,500,000*l.* in 1870 to nearly 28,000,000*l.* in 1888. The expansion has been constant and regular, excepting in the period of 1877 to 1879, during the war with Peru and Bolivia. Since the conclusion of peace with these countries, the annexation of the district of Antofagasta and its "Hinterland" of nitrate has very considerably improved the commercial position of the republic, and by blockading the nitrate harbours the insurgents will undoubtedly strike the severest blow they could inflict upon the Government party. Saltpetre now ranks far and away first among the Chilean exports, the aggregate value of the nitrate shipments in 1889 being more than three times as great as that of the combined exports of copper, silver, and wheat, the three next most important articles of produce. Next to saltpetre the chief druggists' article produced in Chile is iodine, of which the exports in 1889 amounted to no less than 162,829 kilos. In 1888 the iodine convention succeeded in reducing the shipments to 65,868 kilos., and the enormous increase of the exports in 1889 is solely due to the three months' interregnum which occurred between the expiration of the old convention and the inauguration of the new ring. These figures, which are taken from official sources, seem to point to the conclusion that the present stock of iodine in Europe must be at least 100 tons greater than it would have been had the convention been uninterrupted, or, in other words, than the convention managers would have considered safe if they could have had things altogether their own way. As the consumption of iodine is admitted

to be almost stationary, it may be assumed that these 100 tons (sufficient to cover the requirements of the whole world for eight or nine months) are still in existence, undoubtedly under strict control at present. The convention of March, 1890, was only, we understand, a temporary one, to last until the end of the year. Unless it has been extended in the meantime, it must, therefore, have expired about four weeks ago. Possibly the managers of the iodine ring could, if they chose, enlighten the trade on this point.

Honey and quillaia are also drugs of importance in the Chilean trade. Both are principally produced in the southern part of the country. The exports of cinchona bark have shrunk to very small proportions nowadays. In no case, however, is there at present any ground for a considerable advance in any of the articles named on account of the revolutionary movement, although efforts may be made to make the revolution an excuse for attempts to drive up the quotation of all Chilean articles. We regret to say that among the nations competing for the supply of drugs and pharmaceutical preparations to the Chileans the United Kingdom does not take the highest rank. About three years ago we published a series of diagrams giving a graphic view of the share of each of the principal countries which supply the republic. From these it appeared that the value of British pharmaceutical preparations imported into Chile had risen from \$80,000 in 1875 to \$120,000 in 1885, and German from \$48,000 to \$150,000, while the French share had declined from \$70,000 to \$57,000. On the other hand, a very large share of the import business of Valparaiso and Santiago, the two principal cities of Chile, is in the hands of French houses. Nearly all the large import houses in Chile still buy the whole of their requirements through their European correspondents. Lately direct relations between European manufacturers and Chilean consumers have been established, but as yet this class of business forms but an insignificant proportion of the total trade. This business is usually transacted on the long credit system—viz., either eight months' acceptances or two months' ditto less 6 per cent. (1 per cent. per month). The Chilean importers in turn also give long credit to their customers—six or eight months' bills, with a discount of 1 per cent. per month for shorter payments, being the rule.

## HOSPITAL MEDICINES.

THE dispensaries are a branch of the metropolitan hospital administration to which the Select Committee of the House of Lords has not yet extended its inquiries. Perhaps they do not fall within the scope of the investigation, and certainly the tribunal is not competent to consider the details of these departments. But it is the fact that a large proportion of the total expense of maintaining our hospitals is incurred in the dispensing departments. The eleven largest hospitals have a dozen outdoor patients for each indoor one, and it is rarely the case that a patient pays a visit without getting medicine of some sort. Consequently the consumption of physic by the fifty or sixty thousand outdoor patients in the course of the year is enormous, and, if we may judge from the London Hospital accounts for 1890, which amount to 7,433*l.*, not less than 100,000*l.*, or a fifth of the cost of the metropolitan hospitals, is yearly required for maintaining the dispensaries. Moreover, there is no decided uniformity in the control of the dispensaries, nor in the supply of physic to them. It is generally known that hospital governors take care to appoint competent pharmacists as managers of the dispensaries, and in some cases each dispenser is required to hold a certificate of qualification in pharmacy and dispensing;

but this is by no means the rule. It would be a great advantage to the advantage of pharmacy, and conducive to the public safety, if a qualification were insisted upon in every case. The qualification which is at present deemed sufficient is the Apothecaries' Society's assistants' certificate. This is an old qualification which is little known or valued outside London, and we question if its existence is favourable to the best interests of pharmacy. As a pharmaceutical qualification it has no legal status, but it is considered sufficient proof of pharmaceutical competence to compete with the more exact test of the Pharmaceutical Society recognised by the Pharmacy Acts.

The question of the drug supply to hospitals is equally worthy of attention. In some dispensaries little but the compound mixtures, and other articles for which there are special formulæ are manufactured; in others, about a half of the galenicals are manufactured on the premises, and the rest are bought ready-made; and, in one instance, everything that can be made in the dispensary is made. It is claimed by some that it is unprofitable to manufacture galenicals, as wholesale houses offer them at such tempting discounts off list prices that it would be waste of money to attempt to compete with them. This view might certainly be supported by an examination of the records of the London Hospital for last year, a copy of which has fallen into our hands. In the accounts we find 424½ lbs. of pills, purchased at a cost of 138*l.* 7*s.* 6*d.* There is work enough in that item to occupy a man's time in good part all the year round, and if he were making the 90 gross of suppositories, bougies, and pessaries required, and doing a few other jobs such as that, he would not be idle. The wages of such a man could not be less than 80*l.* a year, yet we notice that the total charge for the items we have mentioned amounts only to 172*l.* Obviously it is cheaper to buy such preparations than to make them, and, as a matter of fact, we believe the London Hospital has found it to be so. The result of the experience there was that, to do the work properly, a man needed to devote himself wholly to it, and then he could not compete in quality and finish with pill-factories possessing the most modern machinery driven by steam-power. Similar remarks apply to plasters. We find on the accounts 14,313 yards of different plasters at a cost of 269*l.* 18*s.*, holland, felt, and moleskin being the textiles employed. To attempt to produce these in the hospital would assuredly mean a greater expenditure. It is absolutely necessary nowadays, in order to touch the minimum of cost in production and the maximum of efficiency and quality, to employ the best-known appliances and methods, which are so costly that production must be enormous if profitable. But there are departments in hospitals where manufacturing can be conducted at a considerable saving. In the London Hospital, for instance, the consumption of aerated beverages is about 110,000 syphons a year. These are made on the premises, and the cost last year was only 28*l.* for chemicals and repairs, exclusive of a man's wages for two days per week and the cost of gas for the engine.

Leaving the question of production, and coming to that of consumption, we find that the accounts of the London Hospital show a decided increase in 1890 over the preceding year—viz., 7,433*l.*, as compared with 7,090*l.*, or nearly a sixth more than in 1884. The reason for this increase does not appear in the accounts, and can only be found in the general statistics of the hospital, which, however, are not available at present. Probably the influenza epidemic had something to do with it. We notice that antipyrin shows an increase—475 oz., as compared with 350 oz. in 1889, but no other new antipyretic figures by itself in the accounts, except salol, of which 6 lbs. were consumed (only 2 lbs. in 1889). There has

been a falling-off in the use of sulphonal—from 74 oz. to 44 oz. New remedies generally are brought together as one item at a cost of 11*l.* 2*s.* 7*d.*, so that experimentation by the hospital staff is very limited. As giving an idea of the consumption of the staple articles in such a large hospital, we may note that every day 2½ lbs. of acetic acid are used in this institution, about 12 lbs. of carbolic acid, and 4 lbs. of sulphuric acid. It takes more than a pound of carbonate of ammonia to satisfy the daily wants of the patients, and they need 10 lbs. of white bismuth and 40 lbs. of confection of senna, as well as ½ cwt. of Epsom salts every week. Castor oil is not a favourite in the hospital, less than a pound a day sufficing, but more than twenty times that amount of cod-liver oil is used, and fully ten times as much turpentine. As an index to the shady side of Whitechapel life, we have in the year's record 16 lbs. copaiba and capsules 280 lbs. iodoform, 11½ lbs. sandal-wood oil, and 5,600 capsules of the same. In surgical dressings we find a continued preference manifested for the older antiseptics, 5,856 yards of carbolic gauze having been used, as compared with 654 yards of sublimate gauze. Two years ago the figures were 3,828 and 4,082 yards respectively. In the same time the consumption of boric acid has almost trebled, it now being 2,576 lbs. There are no great differences to note in other materials; the consumption of lanoline and vaseline has increased, so too has that of lard, vaseline being most largely used. As in previous accounts, we find only one kind of chloroform specified, viz., "Chloroform Meth. 426 lbs., 35*l.* 19*s.*" The fact that chloroform cost the London Hospital 1*s.* 8*d.* per lb., while it could be bought at from 1*s.* 3*d.* to 1*s.* 6*d.* last year, warrants us in supposing that the item includes a certain quantity of pure chloroform also.

#### ANALYSIS OF FOOD AND DRUGS IN CANADA.

THE people of the Dominion of Canada, who have probably less respect for the claims of red tape and the hide-bound dictates of ancient custom and precedent than those of the mother country, have the satisfaction of being able to point to the laboratory of their Inland Revenue Department as an establishment for which they obtain their money's worth. To watch over the purity and expose the adulteration of the Canadians' food supply is one of the duties of this department, and the manner in which Mr. Thos. Macfarlane, chief analyst, and his staff perform that obligation is shown in the Bulletin of the department, and is an interesting experiment, but one which defies generally-received constitutional principles. A few numbers of the Bulletin now before us treat of the quality of such daily requirements as butter, baking-powder, cheese, coffee, cream of tartar, lard, milk, and domestic water supplied to the Canadian consumer during the years 1888, 1889, and 1890. A separate pamphlet is devoted to the water of the River Ottawa, which washes the legislative though not the commercial capital of the Dominion, and two or three other treatises are devoted to the description and analysis, more careful than flattering to the manufacturers, of some of the fertilisers offered to the Canadian farmers. The *modus operandi* adopted by the Canadian authorities is boldly to expose—perhaps it would be correct to say, to libel—vendors and manufacturers of adulterated wares. The department has not funds at its disposal for, or at any rate is unwilling to spend them on, the prosecution of offenders, but they do not on that account let them go scot-free. In their periodical Bulletin they publish a dry and formal-looking schedule, setting forth the name of the seller or manufac-

turer of the goods, or the name of the brand, with an exact description of the ingredients of which the goods were found to be composed. This Bulletin, which must be a veritable terror to evildoers, is obtainable upon application at the department, and the local journals of the Dominion, with that praiseworthy eagerness to do justice (especially if doing so involves the holding up to execration of a man and a brother) which distinguishes mankind in Canada as elsewhere, hasten to inform the friends and neighbours of the milk-sellers whose product has been found below the average, or the fertiliser-agents whose brand has turned out a fraud, that their fellow-citizens have been weighed and found wanting. The offenders are then left to try their own remedy in a prosecution for libel, but no such proceedings have ever yet been instituted, all the culprits preferring to accept their exposure meekly rather than to try the remedy of the law. In October and November, 1887, the officers of the department collected samples of some sixty different brands of baking powders, in various parts of the Dominion. Most of the cream of tartar powders were found to be of good quality, but a cheap one of local manufacture, offered under the name of *La Reine de Patisserie*, was found to consist of nearly two-thirds of its weight of flour, and the best that the analyst can say for it is that it "contains nothing injurious to health." Of a sample of "Horsford's Phosphate Baking Powder," it is stated that it does not conform to the formula proposed by Professor Horsford, but, on the whole, it may be said that the average baking powders supplied to the Canadians were of satisfactory quality. Only one of the brands analysed was of English manufacture, and that was an alum powder containing about 54.5 per cent. of rice and maize starch, 12.66 per cent. of sulphuric acid, and 4.5 per cent. of alumina. The alum used had been somewhat over-burnt, but no other comments are made upon the quality. Of 108 samples of cream of tartar, collected in a similar manner, 52 are declared genuine, 13 adulterated, 18 as acid phosphate substitutes, and 3 as alum substitutes. With the analyses of fertilisers a somewhat different course is pursued, the Fertiliser Act compelling manufacturers to forward samples representative of the goods they are placing on the market to the department for analysis. From these samples the analyst compiles a list of great value to agriculturists, quoting the name of the manufacturer, price, brand, and percentage constituents as guaranteed by the manufacturer, and actually found present. The results are not unsatisfactory, for, of 27 different brands analysed in 1890, 13 were found to exceed their guaranteed percentages of ammonia and phosphoric acid, while 9 were equal to the guarantee, and only 5 fell below the standard. The discredit and the financial damage which must result to the manufacturers who find their brands bracketed as inferior, along with the commendation for superiority extended to their competitors, cannot fail, we should think, to have a useful effect.

As regards butter, the sale or manufacture of oleomargarine and butterine is prohibited in the Dominion, but nevertheless it began to be freely rumoured last year that that Act was being contravened in many places. A rigid search by the laboratory officers, however, failed to disclose the sale of any of the prohibited articles, but, of the 150 samples of butter analysed in the course of the investigations, 33 were found below par on account of rancidity or deficiency in butter-fat. It is satisfactory to hear that it is evident that in the manufacture of Canadian cheese no admixture of foreign fat whatever takes place, though our pleasure at that assurance is modified to some extent by the admission that "the nature of the change which takes place during the ripening of cheese has not yet been thoroughly investigated, and this

will require to be done before the methods now in use for its analysis can be regarded as entirely satisfactory." The blame for such adulteration as is actually found in cheese in Canada the analyst, by implication, lays upon the United States, from which, he says, a considerable amount of cheese is imported into Canada. An exception to the rule of the department to expose rather than to prosecute adulterations is made in the case of coffee-falsifiers; but the result is not altogether satisfactory, although convictions have been secured in most cases. Coffee appears to be more liable to adulteration (generally with chicory and roasted beans and peas) than any other article reported upon, 41 out of 85 samples being declared sophisticated; but there are reasons to believe that in reality the percentage of impure samples is much higher. In the cities of Montreal and Halifax not one single sample of pure coffee was found by the department. This is a bad state of things indeed, but it is, at any rate, some consolation that the sophisticators are publicly gibbeted in the Bulletin of the department, and, from there, in the local press.

### EASTERN MEDICINE.

In a recent note we referred to the Chinese Yellow-book containing a list of 1575 substances recognised as medicines in China. These are substances which in the year 1884-85 passed through the ports of Newchang, Tientsin, Chefoo, Ichang, Hankow, Kiukiang, Wuhu, Chinkiang, Shanghai, Ningpo, Wenchow, Foochow, Tamsui, Takow, Amoy, Swatow, Canton, Kuingchow and Pakhoi. We are told that the list does not profess to contain all the varieties of medicine known in Chinese commerce; nevertheless, it is more complete than any other modern one that we know of, and cannot fail to be of value to pharmacognosists, as well as to the Customs officers for whom it is intended. Porter Smith describes between ten and eleven hundred medicines in his well-known work on Chinese Materia Medica, and this is generally regarded as an excellent monograph on the subject. But the Pun-tsaou, a gigantic Chinese herbal compiled in the sixteenth century, gives descriptions of 1,991 remedies. This old medicine-book has always had a great fascination for pharmacognosists, although few have had the ability or temerity to tackle it. Daniel Hanbury mentioned it in his celebrated "Notes on Chinese Materia Medica," and gave a synopsis of its contents. In Porter Smith's book it is mentioned that the Pun-tsaou contains no fewer than 11,896 formulæ, the largest collection, we should think, in existence. The different medicines are divided into sixty-two great classes, under the sixteen orders Water, Fire, Earths, Minerals and Metals, Herbs, Grain and Pulse, Vegetables, Fruits, Trees, Garments and Utensils, Insects, Scaly Animals, Mailed and Shelly Creatures, Birds, Beasts, and Man. The work is in forty volumes. The compilers of the Yellow-book have had to content themselves with a more general division, and accordingly we find the medicines ranged under Roots, Barks and Husks, Twigs and Leaves, Flowers, Seeds and Fruits, Grasses, Insects, and Sundries. Each part gives a list under these headings, and there is a general alphabetical list at the end, which is the more valuable part of the book.

There are gruesome and cheerful sides to Chinese materia medica. The latter is reflected in the knowledge which the practitioners have of the virtues of vegetable medicines, and the scrupulous care which is bestowed on the preservation and preparation of these in pharmacies. Fruits, flowers, and leaves are generally dried with something approaching a correct knowledge of their aromatic constituents. Roots, woods, and barks are sliced with great expertness, this duty falling to apprentice-druggists, who are adepts at the use

of the knife, and succeed in slicing drugs of stony hardness into wafer-like pieces. Care does not end here, however. Drugs are well stored, in most cases done up in retail packages, wrapped with great neatness, and each marked with the native name of the medicine by the master of the establishment, or someone equally responsible. A few dozens of these packages generally go to fill up a prescription. Polypharmacy is paramount in China, and not infrequently the prescriptions rival in gruesomeness that celebrated one which Shakespeare has put into the mouths of those "secret, black, and midnight hags" who foretell the fate of Macbeth. That prescription, it will be remembered, begins with "poisoned entrails," ends with "a tiger's chaudron," and is cooled with "a baboon's blood." Compare with this the chin-chih of the Chinese materia medica, a liquid manure preserved for years. There are many similar articles used medicinally; for instance, ch'iu-shih, the solid residue of children's urine; jên-chung-pai, the sediment of urine; and a large number of excrements from man, birds, beasts, and insects, which are much too filthy to go into in detail. Ch'iu-shih consists chiefly of common salt and urea mixed with the earthy salts of urine in a crystallised mass. It is used in nephritic and uterine diseases, and is manufactured in Hupeh, Kiangsi, and Fukien. It is a favourite with the Chinese, and those who emigrate to the Straits Settlements send home orders for it. The quantity which passed inwards in the year under notice was 25.64 piculs. Apart from articles of that character, many equally, if not more, abhorrent are used medicinally: the male organs of the buffalo, deer, dog, donkey, and monkey are examples of common requisites; that of the tiger is both rare and dear. The poor donkey is a help in life and a cure for diseases after his demise. O'chiao, or asses' glue, is used as a tonic. It is said to be obtained by boiling down the waters of a well in the Tung-o district, in Shantung, in which ass-skin has been immersed for seven days. Porter Smith ascribes remarkable virtues to the article, and sticks up for the mineral origin of the glutinous matter, although it has all the properties of common glue. It is an expensive drug (about 26 taels per picul, or 10*l.* per lb.), is the declared customs value, which is certainly dear for glue), and, like all expensive medicines, is wrapped up in rouge-red paper. It seems that the town where the well is situated was anciently called O-yih, and from that the medicine has taken its name. "The well, as large over as a wheel," says Porter Smith, "and 60 or 70 (Chinese) feet deep, contains a water probably like that of Barèges, in France, which has a gelatinous principle in it." That the glue does possess adhesive properties is proved by the fact that carpenters use it on that account, while in medicine it does service as a tonic, astringent, tassic, emmenagogue, arthritic, sedative, and diuretic—in short, it is the "perfect medicine." There seems to be no doubt, however, that Porter Smith was too sure about the origin of the glue, and that the Yellow-hook description is more correct. The Chinese have a great fondness for anything gluey, and it is partly for that reason that so many varieties of bones and horns are employed medicinally, and the stronger and more fleet the animal, the more efficacious the glue or decoction made from its bones. Even fossil bones are great favorites, and are known under the names lung-ch'ih and lung-ku, and lung-ya, or fossil teeth, if a medicine of allied properties. Hanbury mentions some of these fossils. The names for the bones mean "dragon's bones," and the teeth are "dragon's teeth." It seems that there are caves in Borneo which are extensively worked for teeth for the Chinese market, and some of the specimens have been

determined to belong to the rhinoceros, elephant, mastodon, and the horse species.

Hanbury mentioned comparatively few of the insects used in Chinese medicines. Yet there are many, and the official classification is on the principle enunciated by the railway porter who declared to an irate passenger that "rabbits is dogs, cats is dogs, but a tortoise is a hinsek." In one port-list we find dried snakes and frogs, scorpions, turtle-shells, and snake skins, along with silkworms, ground-beetles, dried centipedes, and blistering flies. Another brings nutgalls under the same heading. The Shanghai people are more intelligent, for they only mention toad cakes and worms amongst the insects, and amongst the curious things of their list are the exuviae of cicada, the chrysalis of the mantis and the larvae of flies. Locusts' skins we find in another list. We find the favourite red cantharides (hung-niang-tzu) only passed through three of the ports; this is the "red lady bug," and is a species of cicada possessed of considerable blistering properties. It is not nearly so much used, however, as pan-mao, the ordinary Chinese cantharides.

The lists of vegetable and mineral medicines still in use are much too long to attempt to deal with here, but, like those of animal origin, they indicate a great deal of superstitious and traditional faith. It may be that there is sound sense at the root of some of the practice, even in the case of animal substances. We know not how far some of our modern lymphs may differ from parts of the bodies of dead animals and men which these ancient people used as potent remedies. And who shall decide where the empiric ends and the scientist begins? An active principle called spermine is perhaps a trifle less nasty than an infusion of the male organs of a monkey or a tiger: one is European, the other Chinese, but they are strikingly alike from the therapeutic point of view. Whatever may be irrational in medical practice such as this can only be weeded out by a thorough reformation of the people who live so much in tradition. And it will not be until China has such a revolution as their neighbours of Japan had a quarter of a century ago that the Chinese mind will be diverted from traditional grooves. The first effect, so far as medicine is concerned, may be a headlong rush to European remedies, and that will be regrettable; but as knowledge increases the vast and valuable materia medica of the country will be thoroughly investigated by the natives themselves. Should this happen we may expect that much will go by the board, but there will remain sufficient to combat all the ills that flesh is heir to.

#### COMMENTARY.

THE PHARMACY BILL.—The chairman of the Edinburgh "Conference" hit off in a very concise sentence the debatable points of the Pharmacy Bill. They may be classed under "the qualified master and the unqualified assistant" and "the unqualified master and the qualified assistant." The latter definition was first made by a correspondent of this journal, but to Mr. Ewing is due the credit of presenting the two points in juxtaposition. Mr. Carteighe has certainly not satisfied Scotchmen that his loosely-drafted 7th clause is a safe one to suggest to Parliament, and he indicates a desire to even remove the two words "immediate supervision," which would entitle unqualified assistants or apprentices to give some help in the dispensing department. For our part we do not see how the exclusive right of dispensing medical prescriptions can be asked for unless chemists are willing to guarantee that the work shall be done or supervised by qualified men. In other words, we

agree with the Pharmaceutical Council on this point. But it is desirable that there should be no mistake among chemists themselves as to the meaning of the clause. It would put the compounding of medical prescriptions on the same footing as the sale of poisons is now on. We notice that the term "medical prescriptions" was interpreted by one Scotch speaker as including medicines made up by herbalists and quacks. This shows the necessity of defining or altering the expression. Parliament will certainly not put down "quacks" by means of a loose expression in a Pharmacy Act Amendment Bill. That the great fault of the Bill is that it tends to recognise and perpetuate the "unqualified master with the qualified assistant" is what we have urged all along. We shall not enlarge on that again. But the advocates of the Bill may talk themselves blue, and they will not modify that serious consideration in the minds of men who can look forward.

**ANOTHER JUBILEE.**—The Chemical Society was founded about the same time as the Pharmaceutical Society, in 1841, and the council have resolved to celebrate the occasion with due *éclat*. A circular has been issued by the honorary secretaries to the fellows, in which it is stated that the society "is the eldest among chemical societies." Why not "oldest"? To celebrate this important occurrence it has been arranged that on February 24, at 3 to 5 P.M., a meeting will be held at the Society of Arts Rooms, where the original meeting, at which the formation of the society was decided on, took place on February 23, 1841. At this meeting various addresses will be delivered, and delegates from other societies will be received. On the evening of the same day, at 8.30, the President and Council will hold a reception at the Goldsmiths' Hall, which has been placed at the disposal of the society for the purpose by the Worshipful Company of Goldsmiths. On the evening of February 25, at 6.30 for 7 P.M., the fellows and their friends will dine together at the Hôtel Métropole.

**STATE OF THE KOCH CURE.**—The *Pharmaceutische Zeitung* reports that the Prussian authorities are considering the issue of a general order restricting the sale of Koch's fluid to pharmacists only. The promulgation of the order, it is thought, merely awaits the settlement of some details as regards the preservation, maximum price and dose of the remedy. It is believed that Koch's fluid will be classed among the remedies which, though not poisons, are subject to special dispensing regulations. As a matter of fact, continues our contemporary, thousands of tubes of Koch's fluid have already been issued to the public without restriction. As a glycerine extract from pure cultivations of tubercle bacilli, Koch's fluid would fall under the clause which prohibits the sale of "extracts in solid or liquid form" by any but qualified persons. The *Pharmaceutische Zeitung* rejoices in the monopolisation of Koch's fluid by pharmacists as a manifestation of the confidence with which that profession is regarded in official circles. But as a "profitable adjunct" the preparation is hardly likely to be of much value, as it is exceedingly unlikely that it will be used in private practice. According to the *Therapeutische Monatshefte*, 6 per cent. of the patients treated by the fluid in a certain hospital died, in 11 per cent. the complaint was distinctly aggravated, 61 per cent. remained without improvement, and only 19 per cent. were cured. Under these circumstances, the medical practitioner who prescribed, and the pharmacist who dispensed, the fluid in private practice might possibly be exposed to disagreeable consequences in case of fatal ending. A young English lady, who was inoculated with the fluid at Berlin a fortnight ago, died at Cannes this week from blood-poisoning. There are other indications that the Koch cure is by no means creating re-

newed confidence. Thus, Mr. Jonathan Hutchinson, the eminent surgeon, in a lecture to the Royal College of Surgeons on the use of the lymph in lupus, said he did not think the improvement manifested in each case which he had examined was likely to be permanent. He had had opportunities of collecting facts over a tolerably wide field, and he thought it might be stated, in the first place, that the injection of Koch's fluid caused the lupus patches to inflame. But even to this rule there were some striking exceptions, in which no effect whatever was produced on the patches, although the temperature rose on every occasion after nine or ten successive injections. In one case, after about a month's treatment, the injections were given up, as they produced no effect, and the patient was now in exactly the same condition as before the injections began. No one had ventured to report a single instance of cure, and of the cases which had been shown to him as most satisfactory he was bound to say that not a single one had come near to the condition of cure. He also referred to the case of Edgar Neale, the patient who was treated in Berlin, and who some months ago was exhibited at the Clinical Society as a case supposed to be almost cured. He was assured by those who took the case to Berlin and exhibited it in London that the patient was now in a condition almost as bad as before the treatment commenced.

**SCARCITY OF ASSISTANTS.**—An interesting affair came under our notice on Monday, which is worth recording as showing the demand there is at present for assistants. An assistant advertised in our Supplement last Saturday (January 24) for a situation, and a subscriber not far from London wrote to him as soon as he received *THE CHEMIST AND DRUGGIST*, and made an appointment with the assistant for Monday, 12 noon, in the City. The assistant received this letter on Saturday evening, by which time he had had from 40 to 50 replies, and half an hour before he had come to an engagement with another principal at a salary of 60*l.* indoors. As he could not communicate by post in time, he kept the appointment with our suburban subscriber, and when they met they had a pleasant chat, the assistant telling our subscriber that he had received 74 replies to his advertisement. This astonished both parties, but what was more surprising to them was the good business which resulted so smartly from the shilling advertisement. Some time ago we remarked on the scarcity of qualified assistants. In this case the advertiser was unqualified, and the foregoing facts show how great the demand still is.

**THE BEST LIGHT.**—Popular notions regarding the value of different kinds of gas-burners are by no means accurate. The Argand is credited with far more illuminating power than it really gives. In his recent Society of Arts lecture on "Gaseous Illuminants," Professor Vivian B. Lewes stated that, although the Argand gives a much better light than the ordinary batwing burner, the flame being circular there is a loss equivalent to 25 per cent. in the inner part of it, the light there having to pass through the flame before it is made effective. This is where the loss occurs. As it is, however, the Argand burner is about 10 per cent. better than the batwing, but neither can compare with the regenerative burners, such as the Wenham, either as regards light or products of combustion. Thus, using the same amount of gas in each case, a regenerative burner gives light equivalent to 10, Argand to 3.3, and the batwing to 2.9. Meanwhile, the batwing burner has given off 0.18 cubic foot of carbon dioxide and 0.46 cubic foot of water-vapour, the Argand 0.16 and 0.40, and the regenerative 0.05 and 0.13 only. Of course the drawback to regenerative burners is that they give off a

great amount of heat, but this is turned to advantage by placing the burners near the ceiling, and so making them ventilators. It is for this reason that these burners should preferably be used for illuminating pharmacies. There is little chance for steamy windows where they exist. On this point it may be remembered that some years ago we mentioned that candles and oil-lamps give far less water-vapour than gas. Scientifically this is not quite correct. Candles give practically the same amount of water-vapour as a kerosene gas-burner, but oil-lamps give only one-half as much, and in practice, Professor Lewis says, the amount of water-vapour given off during the combustion of the gas is greater than in the case of candles and oil. Water-vapour, having a great power of absorbing radiant heat from the burning gas, becomes heated, and, diffusing itself about the room, causes a great feeling of oppression. The air also, being highly charged with moisture, is unable to take up so rapidly the water-vapour which is always evaporating from the surface of the skin, whereby the functions of the body receive a slight check, resulting in a feeling of *malaise*. Added to these, however, is a far more serious factor, which up to the present has been overlooked, and that is that an ordinary gas-flame in burning yields distinct quantities of carbon monoxide and acetylene, the prolonged breathing of which in the smallest traces produces headache and general physical discomfort, while their effect upon plant life is equally marked.

**CELLULOID.**—It is generally supposed that the quantity of camphor in celluloid is about 10 per cent., but this is much too low. Two samples from different factories were examined, and one (French) was found to consist, approximately, of pyroxylin 65 per cent., camphor 33 per cent., and the remainder ash. The second was of German manufacture, and contained only 23 per cent. of camphor, and the ash was half as much again—viz. 35 per cent.

**A SEALED DISCOVERY.**—The custom of depositing sealed papers with scientific societies, as practised in France, has at various times been severely commented upon in this country. There is an opportunity now for renewed condemnation of the practice. Mendeleeff gave publicity to his periodic law in 1869, some time after, but independently of, Newlands. Now MM. Lecoq de Boisbaudran and A. de Laporterie have laid a claim before the Paris Academy of Sciences in favour of M. Chancourtois, who in 1862 presented a paper to the Academy of Sciences entitled "Telluric force; natural classification of simple bodies or radicals obtained by means of a system of helicoidal and numerical classification." This is taken as evidence that M. Chancourtois discovered the periodic law. It will take a long time before the scientific world will believe that.

**MAKING RHUBARB.**—It is said that all the worm-eaten nutmegs find their way to Houndsditch, where skilful Semitic craftsmen turn them out good 60s, 70s, and what not. These gentlemen are rivalled by an ingenious Yankee, who has taken out a patent in the States to utilise rhubarb chips and parings. The inventor proposes to grind up the material, mix it with an adhesive matter, and mould it into shapes convenient enough for cutting into Shensi and other choice sorts. But the genius has yet to find out how to do the graining, and until he does that the "root" will not be a formidable rival to the natural article.

**PERFUMERY UP TO DATE.**—The manner in which some so-called newspapers keep abreast of the times is amazing. Here is the *Journal de la Parfumerie Française* of January 15, 1891, informing readers as a piece of news that a young Swiss chemist (your French publicist always trans-

forms a good or useful German into a Swiss or an Alsatian) has "discovered the means to manufacture in the laboratory a musk absolutely identical in quality and perfume to the natural musk." French manufacturers have bought his secret, and now "la parfumerie du *high life* des deux mondes" is bought no longer at Canton or Shanghai, but in a valley of the French Vosges. How sad to think that THE CHEMIST AND DRUGGIST did not penetrate into the editorial office of the *Journal de la Parfumerie Française* eighteen months ago!

**CEVADILLA ALKALOIDS.**—In our issue of August 23 last we mentioned the isolation by Mr. E. Merck of two new alkaloids from cevadilla. No names were then attached to the bodies, and their properties were only described generally. The one with the higher melting-point (230–240° C.) is now called, in a second report, "Sabadine," and analyses have provided figures for its constituent elements which point to the formula  $C_{29}H_{51}NO_8$ , which has been corroborated by determination of the acidulous radicles in its salts, and analysis of the double gold salt. The alkaloid gives a yellow colour with green fluorescence when treated with concentrated sulphuric acid. The second alkaloid is to be called "Sabadinine," and its formula is  $C_{27}H_{45}NO_8$ , thus differing by  $C_2H_6$  from the first one. This determination was only arrived at after some difficulty, but the data are more favourable to the formula stated, that of  $C_{27}H_{45}NO_8$ , which was the alternative. This base gives a characteristic blood-red colour with concentrated sulphuric acid, and both are peculiar in giving no precipitates with alkaline hydrates in the cold, but on warming the solutions there is a floccy separation.

**THE TUBERCLE BACILLUS.**—Dr. Arthur Ransome has recently reported to the Royal Society on some experiments which he has made regarding the vitality of the tubercle bacillus. This bacillus is generally supposed to be one of the most persistent, and is said to live for months after the sputum of consumptives has been expectorated and dried. Dr. Ransome took the sputum of two consumptive patients, and placed portions of it in situations where the influence of light, air, and dry soils upon the bacilli could be tested. Thus, portions were placed in Bowdon, where the soil is dry and sandy, and consumption rare; another was placed in a small four-roomed house in Manchester, on a clay soil; and a third was placed in a consumption hospital in Bowdon, under the influence of the used air. In the last case the specimen was placed in darkness only; in the others specimens were exposed to light as well as darkness, and after five weeks they were all tested physiologically. The result was none of the specimens of sputum exposed to fresh air and light on a dry soil conveyed the disease, but one of three portions exposed under similar conditions in darkness produced tubercle. Of the two exposed in Manchester in the light, one produced tubercle; and of the two specimens exposed in the same place, in comparative darkness, one caused tubercle, the other did not. Lastly, the specimen placed in the ventilating shaft from a ward in the Consumption Hospital, Bowdon, on a dry soil, conveyed the disease; and the portion removed from it after ten days, and exposed to the action of ozonised oxygen, did not produce tubercle. Although these experiments are too few to justify positive conclusions, so far they prove that fresh air and light and a dry sandy soil have a distinct influence in arresting the virulence of the tubercle bacillus; that darkness somewhat interferes with this disinfectant action; but that mere exposure to light in otherwise bad sanitary conditions does not destroy the virus.

## OUR SUPPLEMENTS.

THIS is a bulky number of *THE CHEMIST AND DRUGGIST*. It will take most of our subscribers a day or two to adequately examine and study the contents. It is a number well worth studying in those times when competition and pressure are felt on every hand. There is no class so alive to that as those who have by their advertisements made this number bulk beyond all previous proportions. It is only by constant, unremitting effort that success in any kind of business is possible. Public taste is continually changing. Something new is always wanted. If not a new article, it is new terms, new prices, or new firms. There is variety of all these in this issue, which our subscribers will study and respond to with advantage to themselves and the advertisers.

The supplements to the issue will be found stitched in at the front and back of the literary matter. They comprise announcements by the following:—

Armbricht, Nelson & Co. return thanks to the voters in our recent DIARY Competition, and offer inducements to the trade in regard to the sale of their coca specialities.

Bowers Brothers, of Blackfriars, give another good specimen of their style of printing, which specially appeals to chemists who are wise enough to be prodigal of printers' ink and art.

Chinnery & Co. figure and describe Mr. Chinnery's ingenious portable aerating machines, and quote prices for different makes and sizes.

George Cnrling & Co., 30 St. Mary Axe, E.C., insert, for the benefit of foreign readers only, a price-list of capsules, effervescing and other preparations, as well as feeding-bottles and Seidlitz powders.

William Geddes, of the Broadway Chemical Works, Oldham, offers a number of pharmaceutical specialities and manufactures of the "Werneth" brand, well known in the Midlands and North. Elsewhere we refer to Mr. Geddes's malted marmalade.

Keene & Ashwell, the Bond Street homœopathic chemists, give drawings of several chemists' counter-cases of homœopathic medicines, which when retailed yield truly Bond Street profits. For instance, the contents of a 2*l.* 10*s.* case sell for 5*l.* 16*s.*, and the others at a proportionate or even larger ratio of profit. The cases, it will be seen, are artistic and attractive (the "Combination," especially so)—"just what is wanted to complete the counter" as one chemist puts it. Messrs. Keene & Ashwell also quote generally for homœopathic medicines, and are the publishers of a useful companion to the homœopathic pharmacopœias.

M'Kesson & Robbins, of New York, give a full list of the M'Kesson & Robbins' capsuled pills which will be found very useful for reference at the dispensing counter.

Leo & Co., of 8 Creechurch Lane, E.C., give remarkably low quotations for compressed pastilles in bulk. The pastilles are "slowly soluble, and disintegrating. The "Leo" device is good.

Meadowcroft & Son, of Blackburn, give a sketch of their works, and sketches of the steam-filter which we remarked upon in our last Brewers' Exhibition report. We should like those interested to study these drawings, the filter being a remarkable one. The firm also quote soluble essences.

Newball & Mason, of Nottingham, distribute with each number a very pretty circular regarding their extract of herbs, wine essences, &c. The Kate Greenaway picture on the back page is wonderfully appropriate for the floral and fruit flavours incorporated in the essences.

James Pascall inserts a circular regarding "Golden Maltex," and other good and sweet things, which he offers to chemists. This contains facsimiles of labels and quotations for all the articles.

Dr. Paul's manicure specialities, a list of which is given, are articles which chemists and druggists should take up. The reasons for this are clearly set forth in the circular.

A. & F. Pears have got a new dirty boy—the sweep whose portrait is one of the sights of Oxford Street just now. There is a very good reproduction of it, in black and white, on the circular in this issue, which circular also contains Emeritus-Professor Redwood's opinion of honest soap, and Messrs. Pears' terms.

Potter & Clarke, the well-known botanic druggists, come forward with a timely list of flower and garden seeds. Since we advocated the addition of this branch to the chemist's trade, it has developed enormously, and this firm now state that "the sale of seeds is undoubtedly a great success when properly pushed." In addition to seeds they figure packets of botanic drugs, &c.

Price's Patent Candle Company offer light for "Darkest Africa" in the shape of their candles and night-lights, Stanley and his lieutenants illuminating the forest with them. Look at the back of the circular.

A charming young lady, wearer of Invigorating Corsets, is figured in a descriptive circular distributed by Mr. Reast, the patentee, of 15 Claremount, Hastings.

J. L. Rosenkranz, of Dresden, figures and describes new dispensing and shop-bottles, with patent dropping stoppers, which give drops of equal size. He also offers a specific-gravity instrument, and surgical and scientific instruments generally. This circular is sent only to colonial and foreign parts.

Seabury & Johnson have done the next best thing to distributing samples of Seabury's ready-made linseed-poultice—they insert a fac-simile of the wrapper, postal regulations not permitting the distribution of samples by this means. There is a great future before this poultice. Chemists will see that when we state that the circular referred to wraps as much poultice as it would take about 7 lbs. of linseed meal to make.

Arthur W. Shirley, in addition to advertising on his circular a selection of his saleable specialities (menthol cones, &c.), makes an announcement regarding the Babies' Feeding-bottle Company, of which he is manager. This includes a price-list and figures of bottles, as well as fittings.

B. W. Ziemer & Co. give a replica of the chromograph used on their counter show-card for the Alexandra dentifrice. It is a life-like portrait of the Princess of Wales, and on the back of the circular is a very convincing letter to chemists regarding the sale of the dentifrice.

Zuccato & Wolff, of 15 Charterhouse Street, E.C., show the working of the new Model Trypograph, and give a specimen of the work which it turns out. It will be seen from this that chemists and druggists can put the trypograph to profitable use in their business. Notable improvements have recently been made on the instrument.

**POISONING WITH OXALIC ACID.**—In a *Lancet* note on a case of poisoning with oxalic acid, Mr. R. Reginald Sleman, B.A., L.S.A., makes the curious statement that the "case is interesting on account of oxalic acid being rarely used for poisoning purposes, and more rarely still with suicidal intent." Mr. Sleman is quite wrong. With the exception of carbolic acid there is no corrosive poison so much used for suicidal purposes as oxalic acid.

**PURE ZINC.**—It has hitherto been difficult to get pure zinc except at a high price, but it is now reported that M. Cahaigne, of Paris, has succeeded in bringing the process of refining the metal by distillation within the limits of commercial requirements, and can deliver chemically pure metal at a reasonable price. This zinc is more malleable than the ordinary metal, and is easily split into plates of great toughness by raising its temperature to 60° C. It may also be drawn with the greatest ease, and makes very useful battery-rods.

## NEW COMPANIES.

**SOUTHPORT "SUNNYSIDE" HYDROPATHIC ESTABLISHMENT (LIMITED).**—Capital 20,000*l.*, in 5*l.* shares. The object of the company is to purchase the private hotel or boarding-house, known as "Sunnyside," Saunders Street, Southport, for the purpose of carrying same on as a hydropathic establishment. The first subscribers are:—F. A. E. Barnardo, The Grange, Birkdale, physician; George Austerfield, Walverden Lodge, Leyland Road, Southport, gentleman; J. Boocock, Sunnyside, Southport, district manager; Sabrina G. Boocock, 24 Saunders Street, Southport; S. L. Richards, Preston Road, Southport, lieutenant-colonel; William Chambers, 6 Walmer Road, Birkdale, grocer; R. H. Johnson, Visitor offices, Southport, manager.

**REFINED COCOA COMPANY (LIMITED).**—Capital 5,000*l.*, in 1*l.* shares. Object, to take over the business of John Stephens, of Turner Square, Hoxton, Middlesex, for the purpose of carrying on there the business of cocoa and chocolate manufacturers. The first subscribers are:—J. E. Dawbin, Hermitage Road, Finsbury Park, N., manager; Phoebe A. Dawbin, wife of the above; William S. Smith, 70 Crown Street, Halifax, clerk; Martha B. Smith, 70 Crown Street, Halifax; John Smith, 12 Hartley Street, Dewsbury, gentleman; Frederick B. Smith, Pyrah Street, Dewsbury, clerk; Charles Kershaw, 36 St. James' Road, Halifax, traveller.

## Gazette.

## PARTNERSHIPS DISSOLVED.

Brook, Wilkinson & Cant, Lincoln, surgeons and medical practitioners; as far as regards T. M. Wilkinson.

Hartzhorne & Penny, Chiswick High Road, Woodstock Road, Bedford Park, Pulman Terrace, Wellesley Gardens, Gunnersbury, and Keble Terrace, Acton, medical practitioners.

Roberts & Son, Harp Lane, City, importers and manufacturers of cork.

## THE BANKRUPTCY ACTS, 1883 AND 1890.

## RECEIVING ORDERS.

Close, William Algar Edward, Landport, herbalist and botanist.

Mills, James, Hitchin, veterinary surgeon.

Taylor, Henry, Barnley and Acerington, chemist and druggist.

## ADJUDICATIONS.

Close, William Algar Edward, Landport, herbalist and botanist.

Lycett, Ernest Forrest, East Greenwich, crucible manufacturer.

Mills, James, Hitchin, veterinary surgeon.

## EXTRACT FROM DEEDS OF ARRANGEMENTS.

The following deed of arrangement with creditors has been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1887. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision, in the Act, making any of these arrangements binding upon dissenting creditors.

Sutton, John Richard Henry, 42 Queen Street, Portsea, and 4 Ashburton Road, Southsea, late of Whitechurch, Aylesbury, and afterwards of Southbourne, near Christchurch, physician and surgeon. Dated, January 21; filed, January 28; unsecured liabilities, 220*l.* Composition of 5*s.* in the pound payable forthwith.

	£	s.	d.
Curtis, E., Southsea .. .. .	10	15	5
Ferris & Co., Bristol .. .. .	10	14	5
Square, Hugh, Bournemouth .. .. .	10	5	4
Wolfe, —, Portsea .. .. .	13	0	0
Wright, Mrs., Southsea .. .. .	10	0	0

## Trade Report.

*Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.*

*It should also be recollected that for many articles the range of quality is very wide.*

42 CANNON STREET, January 29.

THE week under review has been a very quiet one in the drug and chemical trades, citric acid and Cochin ginger being almost the only important articles in which there has been an advance in value of an important character. Tartaric acid is also somewhat firmer, acetate of soda has advanced, and glycerine is also a shade steadier. In cream of tartar the recent advance is just maintained, while quinine, cocaine, morphia, and carbolic acid are in an exceedingly languid condition. Camphor is cheaper. In drugs there are few changes to record. Ipecacuanha is said to be rather firmer, Star-anise oil on the spot has advanced, Senega root is in request at firmer prices, and the better qualities of sugar of milk are scarce. Cinchona bark can hardly be called steady, and there has been some slight easing-off in the position of Japanese oil of peppermint, menthol, saffron, and cubebs. The principal alterations in the outside markets may be briefly summed-up as follows:—Higher prices are quoted for Cochin ginger, chillies, Zanzibar cloves, black and white pepper, East Indian indigo, sulphate of ammonia, indiarubber, benzol, cottonseed oil, linseed oil, turpentine, and tea. On the other hand, sulphate of copper, Montreal potashes, gambier, shellac, petroleum, rape oil, and gum animi are less firmly held.

**ACID (CARBOLIC).**—The market is very flat, and 35° to 36° crystals could probably be bought at 4½*d.* per lb.

**ACID (CITRIC).**—This article has received more attention than any other chemical during the present week, and to-day the market closes excited at an advance of from 1¼*d.* to 1½*d.* per lb. since our last report. Although it is generally believed that the advance is not so much due to the inherent soundness of the article as to the speculative movements of Sicilian dealers in concentrated juice, it is pointed out that, so far, our imports of juice during the present month (which is generally one of the most important of the season) have been less than one-third of those of January 1890, and this is held to indicate that the available supply of juice in Sicily is really very small. Large quantities of juice are said to have been sold forward by Sicilian operators for delivery in February and March, and a strong effort will be made to "corner" these sellers when the time for delivery arrives. To-day's juice quotations from Messina are as high as 26*l.* 17*s.* 6*d.* For citric acid 1*s.* 6½*d.* per lb. has been paid on the spot, and rumours are current that 1*s.* 7*d.* has since been refused. For forward delivery from 1*s.* 7½*d.* to 1*s.* 8*d.* per lb. is asked, but 1*s.* 7*d.* per lb. is the highest limit spoken of as having been paid.

**ACID (TARTARIC).**—The market has advanced, and *English* make is now held at 1*s.* 3½*d.* per lb.; *Foreign* crystals are still obtainable at 1*s.* 3*d.* per lb.

**ANISE.**—There has been another arrival of 175 cases *Star anise* *via* Hamburg this week.

**BENZOL.**—Prices are still tending higher—90-per-cent. on the spot, 4*s.* 8*d.* to 4*s.* 9*d.*, and the same quotation for, delivery over the first half of the year; 50-per-cent., 3*s.* 6*d.* to 3*s.* 7*d.*

**CAMPHOR (REFINED).**—The market is somewhat weaker, and early in the week the *English* refiners lowered their prices by two successive halfpenny reductions to 1*s.* 11*d.* per lb. for *Bells*; while *Tablets* are quoted at a proportionate decline.

**CASCARA SAGRADA.**—The nearest price of good quality on the spot is 32*s.* 6*d.* per cwt.

CINCHONA.—A moderate supply of bark was offered at Tuesday's auctions, the catalogues consisting of:—

	Packages	Packages	
Ceylon cinchona .. ..	1,433	of which 1,224	were sold
East Indian cinchona ..	897	" 733	"
South American cinchona ..	592	" 494	"
West Coast African cinchona	80	" 25	"
Total .. ..	2,912	" 2,477	"

It will be seen that the proportion of bark sold to the total offered was unusually large on this occasion, only about 15 per cent. of the packages being bought in—and a considerable proportion of this was afterwards disposed of. The assortment was rather above the average, South Indian *Officinalis* and *Ledger* barks being particularly well represented, one parcel of 47 bales fine natural yellow broken quill and chips *via* Bombay selling at 9d. to 9½d. per lb. In red barks there were few parcels worthy of special attention. Most of the South American cultivated Calisaya bark was packed in very small hales, 369 packages only weighing ½ cwt. apiece. No Java bark was offered. A fairly good competition prevailed at the auctions, holders being apparently anxious to further business; there was scarcely any quotable alteration in the unit price, which may be placed at from 1½d. to, occasionally, 1½d. per lb., and the tone may be described slightly less firm than at the previous auctions. The following are the quantities purchased by the principal buyers:—

	Lbs
Agents for the Mannheim and Amsterdam works ..	194,362
" Brunswick works .. ..	90,827
" Frankfurt o/M. and Stuttgart works ..	76,058
" Anerbach factory .. ..	35,010
" American and Italian works .. ..	30,116
Messrs. Howards & Sons .. ..	27,780
Mr. Thomas Whiffen .. ..	7,280
Sundry druggists and speculators .. ..	52,931
Total quantity of bark sold .. ..	515,414
Bought in or withdrawn .. ..	115,250
Total quantity offered .. ..	£20,664

It should be well understood that the mere weight of bark purchased affords no guide whatever to the quinine yield represented by it, firms who buy a small quantity of bark by weight frequently take the richest lots, and *vice versa*. The following prices are shown by an analysis of the catalogues to have been paid for sound bark:—

CEYLON CINCHONA.—*Original*. Red varieties: ordinary weak twigs and woody chips, 1½d. to 2½d.; fair to good bright quilly chips, 3d. to 5½d.; poor to good bright spoke shavings, 1½d. to 3d.; ordinary dull and dusty to fair root, 1½d. to 4½d.; fairly good broken druggists' quill, 8d. per lb. Grey varieties: dust, 1½d.; ordinary poor to fair quilly stem and branch chips, 2½d. to 4½d.; dull to good bright shavings, 3½d. to 5½d.; ordinary dusty and woody to good strong root, 2½d. to 7½d.; yellow stem chips, 4½d.; hybrid chips, 3½d.; root, 5d. per lb. *Renewed*.—Red varieties: ordinary to medium chips, 2½d. to 3½d.; good bright ditto, 4d. to 4½d.; fair dusty to good bright shavings, 3d. to 5d. per lb. Grey varieties: poor chips, 1½d. to 2d.; fair to fine bold quilly branch and stem chips (of which a large quantity was offered), 3d. to 8d.; fair to good spoke shavings, 4d. to 5d. per lb. For a parcel of fine quilly shavings an offer of 10d. per lb. was refused. Hybrid chips brought 5d. to 5½d. per lb.

EAST INDIAN CINCHONA.—*Original*.—Red varieties: Dull stem and branch chips, 2d. to 2½d.; fair to good ditto shavings, 2½d. to 3½d. per lb. Grey varieties: common woody chips and shavings, mixed, 2d. to 4d.; good quilly chips, 5½d. to 6d.; dusty shavings, 6d. per lb. Yellow varieties: Thin to fair branch chips, 2½d. to 3d.; good quilly chips, 4d. to 5½d.; fine bright stem chips, 8d.; good bright shavings, 5½d. to 7d.; fine stoutish broken quills and chips, 9d. to 9½d. per lb. *Renewed*.—Red varieties: Fair spokeshavings, 3d. to 3½d.; ordinary to fair bright chips, 2½d. to 4½d.; fine strong chips, 5½d. to 6d. per lb. Grey varieties: Good strong to fine bold quilly chips, 5d. to 7d.; ordinary dull ditto, 3½d. to 4d. per lb. Good bright yellow chips, 6½d. to 7d. per lb.

SOUTH AMERICAN CINCHONA.—Of the cultivated Bolivian *Calisaya* bark offered, 29,700 lbs. were sold at 4½d. to 6½d.

for rather thin, broken and irregular mixed quill, and 7d. up to 10d. per lb. for fair to fine bright quill. Thirty serons *Soft Colombian* bark (1881 import), small dusty to fairly bright, sold at 2d. per lb.; 9 serons dull old dusty *Pitayo*, at ¾d. per lb.; and for 2 hales so-called *Cuprea*, nearly all wood, no one would bid even ¼d. per lb. Of 10 packages *Red bark*, one small bale damaged, medium broken quill of very poor colour, is priced at 4s. 6d. per lb.; the rest, all poor quality, was bought in at smaller prices.

WEST AFRICAN COAST BARK.—Of 80 packages, 28 sold, dull red broken quill and chips, at 3½d. to 4d. per lb.

The following are the analyses of some parcels of the bark sold yesterday, with the prices paid for them:—

	p.c. quinine sulphate	Sold at
41 bales East Indian Succir. renewed chips ..	3.45	5½d. to 6d.
16 " " Ledger. original " ..	4.12	5d. to 5½d.
35 " " Ceylon " Officin. " ..	2.37	3d.
54 " " " renewed " ..	3.07	5d.
54 " " " Succir. original " ..	2.08	3d. to 3½d.
9 " " " Officin. " root ..	4.94	7½d.
10 " " " Succir. " shavings..	2.06	3d.
47 " " East Indian Ledger. " bold chips	5.93	9d. to 9½d.
51 " " Ceylon " Officin. " chips ..	2.16	3d. to 3½d.
19 " " " " renewed " ..	5.02	7½d. to 8d.
48 " " " Hybrid. " " ..	3.77	4d. to 5½d.
22 " " " Succir. original shavings ..	1.97	3d.

As regards the last Amsterdam auctions, we understand that the cause of their smallness is ascribed to the temporary closing of the port, which prevented several consignments from being unloaded in time. For the bark bought by factories, the following unit prices were paid:—The equivalent in bark of 2,826 kilos. quinine sulphate brought 7 cents; 1,343 kilos., 7½ cents; 798 kilos., 8 cents; 103 kilos., 8½ cents; and 52 kilos., 9 cents per ½ kilo. Pharmaceutical barks, especially in thin quills, were unusually well represented at the Amsterdam auctions. For a parcel of fine thin mossy *Lancifolia* quill the equivalent of 13d. per lb. was paid; and 12½d. per lb. for some very fine light but silvery and well-dried *Succirubra* quill.

COCAINE.—Hydrochlorate is offering at 20s. 6d. per oz now. It is said the recent decline in value has been caused by the application of a more economic method of manufacturing the drug. This method was hitherto only known to one of the German manufacturers, but the secret of it has since come into the possession of others. The saving effected by this new process is said to be more than equal to the decline in price. We may give further particulars on this subject next week.

CREAM OF TARTAR.—Quiet but steady at 102s. per cwt for best white French crystals.

CUBEBS.—We hear that some private business has been transacted at 16l. 10s. per cwt. for genuine, but small and slightly stalky mixed berries. The market is declining.

CUTCH.—A parcel of 389 boxes sold on Tuesday by auction, without reserve and with all faults; RS in slabs, declared to possess 32.5 per cent. of tannic acid, at 10s. to 11s., *double peacock* (15 per cent. ditto) at 12s. 6d. to 13s., and *ACB* in block (15½ per cent. ditto) at 8s. to 8s. 3d. per cwt.

GALLS.—A sale of 400 cases *China* galls is reported to have taken place recently, at 53s. 6d., c.i.f. terms, and subsequently 54s. is said to have been paid.

GAMBIER.—The market last week closed with a steady feeling, sales being reported at 22s. per cwt. for February-March, but since then the article has eased off and 21s. 10½d. has been accepted for a parcel in the same position. At auction on Tuesday 103 bags *cube gambier* were bought in.

GINGER.—In this article there has been a strong demand, principally of a speculative character, and mainly confined to the *Cochin* variety. Stocks are small, and prices still rule rather low generally, while the reports of crop failure are very persistent. Privately about 2,000 packages are said to have changed hands, and at Wednesday's auctions about 1,400 packages were sold, mostly without reserve, at 41s. to 45s. 6d. for fine bright bold middling to selected (1887 crop), 38s. 6d. to 39s. for small to middling part

scraped, 26s. to 35s. 6d. for ordinary dull to bold rough, and 18s. 6d. to 19s. 6d. for cuttings. For cut ginger "C" 40s. has been paid, and up to 52s. for "B" cut. *Jamaica* firm but unchanged. *Bengal* ginger also dearer, with few sellers at 20s., but no buyers over 18s. per cwt. The stock of this variety is concentrated in a few hands. In Liverpool, a few days ago, 375 bags *African* ginger of old import sold at 20s. per cwt.

**GLYCERINE.**—There has been a much more active demand since our last report, and prices show some further recovery from the lowest rates, although 55s. would probably still be accepted for double-distilled German S.G. 1260.

**GUM ANIMI.**—Of a rather heavy supply of *Zanzibar* animi a small proportion found buyers at a decline of 10s. to 20s. per cwt. The following prices were realised: fair to good sorts 12l. 2s. 6d. to 12l. 17s. 6d., weak and glassy to bold red ditto 10l. 15s. to 11l. 15s., pale beans 7l. 5s., ditto bean and pea 5l. 12s. 6d. to 6l., siftings and pickings from 32s. to 5l. 12s. 6d. per cwt.

**GUM ARABIC.**—The only business reported from Liverpool is in *Niger* gum arabic at 65s. per cwt., and in forty-five tons *Brazilian* gum at some decline on previous rates.

**GUM COPAL.**—The large supply of 1,871 packages *Manila* copal offered to-day met a very poor demand indeed, and only a small proportion was disposed of at 33s. up to 57s. for dark to fine pale bold, and 20s. to 34s. 6d. for small to good hold chips.

**GUM KAURI.**—At to-day's auctions there was a very heavy supply of *Kauri* gum, the total amounting to 2,592 cases, of which the bulk sold at irregular prices, hard varieties generally bringing very full rates. The following were the prices realised: Sorts, common to good hard, chiefly scraped, 40s. to 91s.; selected hard to transparent, 5l. to 12l. 15s.; low to fine soft pale, 39s. to 105s.; chips low to ordinary, 19s. to 47s.; pale to fine, 53s. to 67s. per cwt.

**GUM OLIBANUM.**—Of 486 cases offered at to-day's auctions a small part only was sold at steady rates. Medium to good palish drop, 33s. to 43s.; siftings at 10s. to 11s. 6d.; and ordinary to good pickings at 15s. 3d. to 17s. 6d. per cwt.

**INDIARUBBER.**—Prices are advancing again, and there are now buyers of fine *Pará* on the spot at 3s. 5d. per lb.; but sellers' ideas are higher—3s. 5½d. being the lowest price at which they would sell; old *Pará* is held for 3s. 6½d.

**INDIGO.**—The London market is exceedingly firm, and sales of about 400 cases *Kurpah* have been made privately at an advance of about 4d. per lb. on the last auction rates. Mail reports from Calcutta, dated January 7, report a somewhat better state of things at auctions. The season was expected to terminate about the middle of the month.

**OIL (CASTOR).**—From Liverpool a rather steady market is reported with a fair inquiry, good second *Calcutta* selling at 3½d. to 3¾d. per lb. ex quay. The arrivals have been very considerable lately, but since the end of last week there has, nevertheless, been a somewhat steadier feeling in the market. *Italian* castor oil is reported firmer on account of rumoured failure in crop; best medicinal is quoted up to 5½d. per lb. London terms.

**OIL (COD-LIVER).**—According to telegrams received from Norway this week, the fishing has scarcely begun yet, and what little fish has been caught is of unsatisfactory quality.

**OILS (ESSENTIAL).**—There is little of any importance to notice in this department. Some further business in Japanese oil and *peppermint* is reported this week at 4s. 6d. to 4s. 8d. per lb., according to quality. American oil (H.G.H.) is quiet at 14s. 9d. to 15s. per lb. *Menthol* not very active, and somewhat easier at 9s. 6d. to 9s. 9d. for fair quality crystals. For oil of *Star-anise* 7s. per lb. is now asked on the spot, but that price has not been conceded. Available supplies are scarce, but for prompt shipment the oil offers at 6s. per lb. c.i.f., and might, perhaps, be bought a shade below that figure.

**OIL (VARIOUS).**—Newfoundland *Cod-liver* oil is worth 23l. *Cocoa-nut*: firmly held at almost unchanged prices,

Ceylon according to quality, 23s. 6d. to 29s. on the spot and from 27s. 6d. to 28s. for shipment according to position, good to fine *Cochin* oil, 33s. 6d. to 34s., *Mauritius*, 29s. to 30s. per cwt. *Cotton-seed oil* has been in better demand and prices close decidedly higher; for erudo oil 16s. has been paid here, but 16s. 3d. is now the quotation; refined is held for 18s. 6d. to 19s. 6d. according to quality. Liverpool also higher, refined quiet there at 19s. to 19s. 6d.; in Hull crude oil (naked) is worth 14s. 10½d., and refined 16s. 1½d. to 16s. 3d. *Lard oil*: steady at 33s. 6d. *Linseed oil* is firmly held at 22s. to 22s. 6d., according to quality, on the spot. Hull has advanced to 21s. 1½d. for naked oil; and in Liverpool linseed oil, in export casks, is held at from 23s. to 23s. 6d. per cwt. *Olive oil*: held for firm prices, but rather dull as regards business—Spanish at 42s. to 43s.; Messina oils at 41s.; and Mogadore, 37s. to 37s. 6d. per cwt. *Palm oil*: firmly held, but in limited request, fine Lagos on the spot here at 26s.; sound oils, ex quay Liverpool, 23s. 6d. *Petroleum* has declined this week, and closes quietly at 5½d. to 5¾d. for usual qualities American, and about ½d. less for Russian oils. *Rape oil*: easier; brown would find buyers at 27s., refined is quoted at 29s. In Liverpool the market is rather better, English refined at 30s. and Stettin at 34s. *Turpentine* has advanced slightly—3d. per cwt. American is now held at 29s. 9d. to 30s. per cwt. on the spot. *Seal oil* is worth 24l. 10s. to 25l. for pale oil, other grades in proportion. *Whale oil* (Norwegian), 20l. to 22l.; *Bottle-nose*, 20l. to 25l. per cwt.

**OPIUM.**—The London market is exceedingly dull, and only a few cases of manufacturing opium are reported to have changed hands at the recent quotations. It is said that during the last week only three cases have been sold in Smyrna. The position of the article is one of decided weakness, and quotations are only nominal.

**ORRIS-ROOT.**—We hear from Italy that next year's crop is reported to have been sold already at even higher prices than are now ruling. It is expected that the principal growing districts may suffer from inundations this spring, and in that case the outlook for the coming crop will be a very poor one.

**POTASH SALTS.**—*Bichromate* quiet at 3¾d. *Chlorate* firm at 5½d. per lb. Montreal *Potashes* are rather lower, and offering at 35s. per cwt.; *Pearl ashes* are steady at 42s. 6d. *Yellow prussiate* very firm, English brands are generally held at 10d. per lb. *Pernanganate* in small crystals, 60s.

**QUICKSILVER.**—The market has been exceedingly quiet this week. The importers still quote 8l. 12s. 6d., and from the second-hands offers come at about 1s. per bottle less.

**QUININE.**—We do not hear of any sales in this article but the market is weaker than it has ever been known before, and there would be no difficulty at all in buying second-hand German bulk at 11½d. per oz., but no one seems willing to buy at that price.

**SAFFRON.**—The price of Spanish saffron this week is perhaps a shade lower than last, 39s. to 40s. per lb. being quoted for best Valencia.

**SENEGA.**—A fair business is reported this week at the full price of 2s. per lb for good bright quality.

**SHELLAC.**—The private market has been exceedingly dull this week, with a depressed tone, and the only transactions of which we have heard have been in fair to good worked second orange at 69s. to 72s. per cwt. At the auctions no less than 2,019 cases were offered, for a great part without reserve. Of this quantity, 1,520 cases sold at rather better prices than could have been expected, though still showing a decline of from 6s. to 7s. on fine second orange and fine orange (of which the supply was unusually large); about steady for standard quality of second orange; 4s. to 5s. lower for *Garnet*; and from 5s. to 7s. per cwt. on *Button lac*. The following prices were paid:—*Fine orange*, 83s. to 87s.; ditto G in double triangle, 82s. to 86s.; *Second orange*, SS in diamond, 69s. to 75s.; ditto red to fair, 64s. to 69s.; *Button lac*, firsts, 77s. to 80s.; seconds, 72s. to 76s.; thirds, 62s. to 68s.; and fourths, 62s. *Garnet lac* AC realised 64s. to 67s. per cwt.

**SODA SALTS.**—Ash in brisk demand, at 11½d. to 1¾d. per degree. *Bicarbonate* is worth 7l. 10s. for casks, and 8l. for kegs. *Caustic soda*: 70 per-cent. on the spot, 11l. 17s. 6d.; *Crystals*, rather quiet, 62s. 6d. to 63s., ex ship. There has

been an advance in the price of *Acetate*, which is now quoted at 18*l.*, c.i.f. terms, and 19*l.* on the spot. *Nitrate*: Steady, but unchanged; 7*s.* 10½*d.* to 8*s.* for ordinary, and from 8*s.* 9*d.* to 8*s.* 10½*d.* for higher grades.

**SPERMACETI.**—The market remains firm, at 1*s.* 6*d.* for *American*, and 1*s.* 8*d.* per lb. for *English* refined.

**SPICES.**—*Cassia Lignea* remains dull of sale at 23*s.* per cwt. nominally. *Chillies* have advanced in price, and at Wednesday's auctions 36 hales ordinary Zanzibar sold at 45*s.* per cwt. Zanzibar *Cloves* have been steady, and sold with small transactions both privately and at the auctions at the rate of 3½*d.* to 3¾*d.* for fair middling to good bright. For fine bold *Mace* there has been a better inquiry at the somewhat higher rates, but ordinary qualities are quiet; some ordinary mixed Singapore sold at auction at 2*s.* 4*d.* to 2*s.* 5*d.* per lb. *Nutmegs* dull of sale: 47 packages Padang (112) realised 2*s.* 5½*d.* and Penangs (75 to 72) 2*s.* 9½*d.* to 2*s.* 10½*d.* per lb. *Black pepper* has slightly improved in position for Singapore; at the auctions 186 bales were sold mostly without reserve at 4*s.* 4½*d.* for ordinary grey to good; for 98 packages Aleppy, good fair quality, 4½*d.* to 4¾*d.* was paid. *White pepper* generally steady, and Penang rather firmer with a fair business at 5½*d.* for fair quality, Siam was sold at 7*d.* per lb. privately, and at the auctions 60 packages Singapore realised 7½*d.*, and 54 packages good Tellicherry (without reserve) 12*d.* to 12¼*d.* per lb. *Pimento* quiet and slow of sale at 2½*d.* to 2¾*d.* for ordinary good fair grey. Flaked *Tapioca* is quiet, and pearl rather lower in price.

**STICKLAC.**—The nominal quotation for fine *Siam* lac is 70*s.* per cwt., but there is no business reported.

**SUGAR OF MILK** is reported to be exceedingly scarce at present. The quotation for the best Swiss powder is 100*s.* per cwt.; but several parcels of inferior make might be bought at about 80*s.* or even less.

**SULPHATE OF COPPER** has declined in price, and may now be had at from 17*l.* 10*s.* to 18*l.* according to quality in London. Liverpool and Swansea quote 17*l.* to 17*l.* 5*s.*

**SULPHUR.**—Firm. *Flowers*: Foreign brands, 7*s.* 9*d.* Roll sulphur, 6*s.* to 6*s.* 6*d.* per cwt.; rough Sicilian, 104*s.*, c.i.f. terms.

**TEA**—Speculators on the terminal market have kept the ball rolling with much vigour, and have forced prices for Congou and Assam alike up again till the latter reached the dizzy height of 10½*d.* for delivery a month or two forward, while sellers are asking over 11*d.* in many cases. Congous are not quite so exalted, an advance of 2½*d.* per lb. from the lowest point bringing the price up to 7½*d.* for two or three months forward. Retailers and buyers generally cannot be told too clearly that while the statistical position of tea is strong and prices were too low, the present quotations for Indian teas are not the result of legitimate supply and demand, but that a considerable part of the rise is due to speculators who are in many cases outsiders, at any rate as far as Indian tea is concerned. Monings from 9*d.* upwards do not show much change, but if the quotation for type goes much higher they will be affected. The better grades of Assam on the other hand show much strength and good liquoring teas over 1*s.* in many cases show pence per lb. advance. Ceylons on Tuesday sold at about ½*d.* per lb. advance for lower grades in sympathy with Assams.

**TURMERIC.**—The last business reported consisted of parcels of split *Cochin* bulbs at 9*s.* per cwt., and fair *Bengal* finger at 16*s.* per cwt. The market is quiet. At the drysaltery auctions 20 bags *Cochin* hulks sold at 8*s.* 6*d.* per cwt., and 250 bags *China* were bought in.

**WAX (JAPAN).**—The market is somewhat firmer again, and sales have been made up to 42*s.* per cwt. for good pale squares.

#### CHEMICALS IN THE NORTH OF ENGLAND.

**BUSINESS IMPROVING.**—There is a much better tone in the chemical market this week, and makers are looking forward to an increasing demand when all the shipping ports are again open. Already several shipments of chemicals have been despatched to some of the northern continental ports,

which have been frozen up since the beginning of the year, but are now open to navigation. The only exception to the general state of firmness is in *Sulphate of copper*, which is again lower in price.

**THE UNITED ALKALI COMPANY (LIMITED).**—The statutory general meeting of the shareholders of the United Alkali Company (Limited) will be held at the North Western Hotel, Liverpool, on Thursday afternoon next. An important concession to chemical merchants and brokers on Tyneside will be made from February 1. The local directors of the United Alkali Company, in response to a deputation of shippers of chemicals, have decided to pay the river-dues levied on chemical products exported from the Tyne, and which have hitherto been borne by the shipper of the goods. This will make a difference of 6*d.* per ton on *Caustic soda*, 3½*d.* per ton on *Bleaching-powder*, *Soda ash*, and *White alkali*, and 1½*d.* per ton on *Soda crystals* and *Sulphate of soda*. The payment of these dues by the manufacturers instead of the shippers will place the Newcastle chemical merchants on the same footing as their Liverpool colleagues, who do not pay such dues. It is announced that Mr. I. Heslop, who for many years has been chief of the commercial department of the Jarrow Chemical Company's establishment, has been appointed local secretary for the United Alkali Company in the Newcastle district.

**BLEACHING-POWDER** steady, and very firm in price. Softwood casks 6*l.* 12*s.* 6*d.* per ton on rails, Widnes and St. Helen's, and 6*l.* 15*s.* per ton, f.o.b. Liverpool. Hardwood casks quoted from 7*l.* to 7*l.* 2*s.* 6*d.* per ton f.o.b. Liverpool. Newcastle market more doing, with prospect of more regular shipments being effected. Softwood casks quoted 6*l.* 15*s.*, and hardwood casks 7*l.* per ton, f.o.b. Tyne.

**CAUSTIC SODA.**—There has been a fair business doing in Liverpool during the week, with a good inquiry; but owing to the appearance of some re-sellers, buyers have been holding back in the hope of purchasing under union prices. For prompt delivery quotations are 74 per cent., 12*l.* 5*s.* per ton; 70 per cent., 11*l.* 5*s.* per ton; and 60 per cent., 10*l.* per ton, f.o.b. Liverpool, with an allowance of 2*s.* 6*d.* per ton, if taken on rails at makers' works. Tyne market strong, with good business doing at current prices. 77 per cent. quoted at 12*l.* per ton nett; and 70 per cent., 11*l.* 5*s.* per ton, less 3½ per cent. f.o.b. Tyne.

**CHLORATE OF POTASH** continues firm and unchanged in price. Makers quote 5½*d.* to 5¾*d.* per lb., less 5 per cent. discount, according to brand, for delivery at usual ports of shipment.

**HYPOSULPHITE OF SODA** steady and unchanged in price. Prompt delivery, 1-cwt. kegs, 6*l.* 10*s.* per ton; casks, 6*l.* per ton; Liverpool and Manchester kegs 7*l.* 5*s.* and casks 6*l.* 15*s.* per ton, all less usual discount of 2½ per cent.

**SODA CRYSTALS** are in good demand; 3*l.* 7*s.* 6*d.* to 3*l.* 10*s.* per ton on rails, and 3*l.* 10*s.* to 3*l.* 12*s.* 6*d.* per ton f.o.b. Liverpool. Tyne market firm at 2*l.* 16*s.* to 2*l.* 17*s.* 6*d.* per ton f.o.b. Tyne.

**MISCELLANEOUS CHEMICALS.**—*Alum* (loose lump), 5*l.* 2*s.* 6*d.* to 5*l.* 5*s.*, f.o.b. Liverpool. *Aluminate of Soda*, 32*l.* 10*s.* per ton, f.o.b. Tyne. *Blanc Fixe*, 7*l.* 10*s.* per ton, f.o.b. Tyne. *Carbonate of Alumina*, 27*l.* 10*s.* per ton, f.o.b. Tyne. *Carbonate of Magnesia*, 37*s.* 6*d.* per cwt., f.o.b. Tyne. *Chlorate of soda*, 7*d.* per lb., f.o.b. Liverpool. *Chloride of barium*, 7*l.* 15*s.* per ton, f.o.b. Tyne. *Hydrate of barium*, 8*l.* 10*s.* per ton, f.o.b. Tyne. *Nitrate of baryta*: In crystals, 18*l.* 15*s.* per ton; ditto, ground, 19*l.* 5*s.* per ton, f.o.b. Tyne. *Sal ammoniac*, 37*s.* and 35*s.* per cwt. for first and second quality, f.o.b. Liverpool. *Nitrate of soda*, 8*l.* to 8*l.* 2*s.* 6*d.* per ton, ex quay or store Liverpool. *Silicate of soda* solution, 140° Tw., 4*l.* 10*s.* per ton, f.o.b. Liverpool; 140° Tw., 4*l.* 5*s.* per ton, f.o.b. Tyne; 100° Tw., 3*l.* 15*s.* per ton, f.o.b. Tyne; 75° Tw., 2*l.* 17*s.* 6*d.* per ton, f.o.b. Tyne. *Sulphate of alumina*, 4*l.* to 5*l.* per ton, f.o.b. Liverpool; and 4*l.* 10*s.* per ton, f.o.b. Tyne. *Sulphate of Ammonia*, 10*l.* 12*s.* 6*d.* to 11*l.* per ton f.o.b. Liverpool. *Sulphide of Barium*, 5*l.* 10*s.* per ton f.o.b. Tyne; *Sulphur* (recovered) in 2-cwt. bags 5*l.* 10*s.* per ton f.o.b. Tyne. *Flowers of sulphur* in barrels, 8*l.* 5*s.* to 8*s.* 10*s.* per ton f.o.b. Liverpool. Roll sulphur in barrels, 6*l.* 5*s.* to 6*l.* 10*s.* per ton f.o.b. Liverpool.



### Memoranda for Correspondents.

*Always send your proper name and address: we do not publish them unless you wish: if you do not, please use a distinctive nom-de-plume.*

*Write on one side of the paper only; and devote a separate piece of paper to each query if you ask more than one, or if you are writing about other matters at the same time.*

*If you send us newspapers, please mark what you wish us to read.*

*Ask us anything of pharmaceutical interest: we shall do our best to reply.*

*Before writing for formulæ consult the last volume, if you have it.*

*Letters, queries, &c., will be attended to in the order received.*

### The Pharmacy Bill Discussions in Scotland.

SIR,—In the abbreviated report which you give of the proceedings at the Glasgow meeting, I am reported to have said that "I thought it would be very hard for those who had been at the business for many years to begin now to be qualified. It was not easy for a man of thirty or forty, with a large wife and a small family, to begin and prepare for an examination." Now, Sir, if the paragraph in which that sentence occurred had been given *in toto*, it would have read and been understood quite differently, and as my views are quite the opposite from those which your report convey, I will feel greatly obliged by your inserting in your first issue what I actually did say, which was as follows:—

"It has been said that it would be very hard for men of thirty or forty years of age—men with, probably, large wives and small families—to begin now and study for their examinations. But those men were not always so old; they have had the same opportunities as those of us who have qualified, and if they had used the opportunities they would not be in the predicament they are now in. I have no sympathy with the movement to insert a clause for registering assistants who have been not less than fifteen years at the business, as I hold that those who have studied deserve recognition, and it would be unfair to those who have qualified and are now qualifying to have their places filled, even as assistants, by those who might claim registration."

How is it that so much has been said about the unqualified assistant and his extraordinary competency? It is all very well to say that a man may be qualified but not competent, and claim for the competent man privileges which he has no right to enjoy; but it does not alter the fact that to comply with the law as it stands competency goes for nothing, while qualification is recognised.

Let those unqualified men prove their competency by undergoing their examinations, as they ought to have done long ago, and give up the idea of getting in, not even by the proverbial back-door, but by that which is much more difficult to accomplish—through the keyhole.

Dowanhill, Glasgow,  
January 26.

I remain, &c.,  
WILLIAM L. CURRIE.

SIR,—In the proposed Pharmacy Act I would suggest that a clause or clauses be inserted giving authority to the Procurator Fiscals in counties or boroughs in Scotland to prosecute persons infringing the provisions of the Act, and to recover penalties under the same. I believe this would be done at less cost, more quickly, and more satisfactorily than according to the present mode of procedure.

H. R. V. (230/52.)

SIR,—It is an omen of much significance that, at Mr. Carteighe's meeting in Edinburgh on the 23rd inst., a motion approving of the new Pharmacy Acts Amendment Bill was unanimously adopted. The meeting was the largest ever assembled in the Society's house. It consisted of registered chemists, most of them presumably either members or associates of the Society.

In view of these facts one feels eager to know what position Scottish chemists generally mean to take up. Do they still purpose holding aloof from the Society as in the past, or, like sensible men, do they now intend to become connected with it?

The growl that the Society has done nothing to improve the trade interests of chemists can no longer be indulged in. It was always mean, and is now obsolete. It is as certain as anything mundane may be that a Bill with the shutting-up of stores as its object (by which is meant the protection of trade interests) has not the slightest chance of getting through Parliament. It is equally certain, however, that a better Bill than that under review would have been framed had the Society been representative of even a majority of registered chemists. This is where the gall and wormwood must be tasted; our position and prospects would have been much higher and fairer had we only been united and loyal to ourselves.

Now, however, that Edinburgh has shown the example, surely chemists everywhere through Scotland will rally in support of the cause. Surely local secretaries, in their districts, will call personally upon each individual chemist not connected with the Society, and prevail upon him to join. Surely another chemist, with the zeal and enthusiasm of the idol of Scottish chemists, the late John Mackay, will arise to give us all a further lift forward and upward.

So surely as all do so, the brightest and best days of pharmacy are yet to come.

I am, &c.,  
Abbey Park, Dunfermline, N.B. JOHN H. FISHER.

SIR,—The President has come and gone, and Scotland—or at least the western portion of it—still stands where it did. Mr. Carteighe must have carried away with him a very poor impression of his brethren-in-trade in this large city. The spectacle of the autocratic President of the Pharmaceutical Society of Great Britain being allowed to cool his heels for ten minutes outside of the place of meeting, was neither an edifying nor awe-inspiring one, and reflects little credit on those who had charge of the arrangements. It showed a want of respect, nearly amounting to insult, not only to the personality of the President, but also to the Society; hnt, alas! it is an indisputable fact, though the chemists in Glasgow might confess it with shame.

As mentioned in your issue of January 17, it was generally understood here that there was not to be a meeting, and, as explained by the chairman of the meeting, but for the energetic action of Mr. Rutherford Hill and the secretary of the Glasgow Committee, no meeting would have taken place. The most bigoted partisan of the Carteighe party, however, would hardly attempt to class it as a representative one. Not large in numbers (about forty being present), neither was it select. A sprinkling of medical gentlemen, drug-and-sundries travellers, a few assistants come out to spy the promised land, and the remainder chemists. I noticed five gentlemen from one town establishment alone. The chairman's remarks were very practical, and to the point. He very properly resisted the attempt to confine the meeting to registered chemists, and with characteristic bluntness revealed the instigators of it. Mr. Carteighe's reception was very cordial. In a straightforward manner he asked the meeting either to receive or reject the proposed Bill. His speech contained nothing but what was familiar to most of his hearers from his former speeches. One little bit of his argument, anent the curriculum, rather tickled my fancy, and but for my prevailing modesty I should have asked the President a few questions about it. As an argument in favour of a curriculum for budding chemists, he mentioned that medical and dental students had to undergo a prescribed course of training for their examinations; but he forgot to impress upon his hearers the fact that doctors and dentists are protected by law, and can always be guaranteed that fair remuneration for their skilled labour which is denied to chemists. The effect of the speeches of Mr. Carteighe and the gentlemen who followed was sadly marred by the inspiring but (to the listener) rather irritating strains of a melodeon, which was doing duty in an adjoining room for some devotees of the terpsichorean art.

Mr. Kinninmont's remarks in regard to the proper inter-

230/40. *Plumbo*.—The Manufacture of Oiled Silk is not a thing you will find described in books, the industry being limited to a few. The silk simply gets several coats of boiled and bleached linseed oil. There is no patent about it.

230/60. *A. Shaw*.—The Salicyl-Sulphonic Acid Test for Albumen was mentioned in this journal for November 23, 1889, page 725. The acid is said to be made by the action of sulphuric acid upon salicylic acid; but we should think that the reaction is more complex than is implied in that general statement.

229/37. *E. L. R.*—You will find the particulars of primuline printing under "Photographic Notes."

229/5. *Nemo*.—In stocktaking patents are generally put in at the 10s. 6d. rate, with 15 per cent. off, except when they are shopworn, in which case there must be mutual agreement.

229/65. *P. R. C.*—(1) See our issue of August 25, 1888, for formula for nursery hair-lotion. (2) For your Cantharidin and Rosemary Hair-cream label a preparation such as the following may suit, but we should like to say that we do not profess to devise preparations for the labels which subscribers send. Your label claims by far too much. Mix together a drachm of crème d'amande and a drachm of glycerine, and stir up with it 6 drachms of almond oil,  $\frac{1}{2}$  oz. of lanoline, and 10 drops of oil of rosemary previously mixed together; then add gradually and with constant stirring 2 drachms of tincture of cantharides diluted to 4 oz. with rose water.

230/23. *J. Edwards*.—See March 9, 1889, page 340, for children's cough mixtures. The addition of a little ammonium bromide is beneficial in whooping-cough. Formulæ for glycerine and cucumber are given in the 1890 DIARY. You can buy infants' food in bulk better than you can make it.

231/7. *Caledonia*.—Wax Powder for Ballroom Floors.—spermaceti, 1 part; French chalk, 4 parts. Powder the spermaceti with the aid of methylated spirit, mix with the chalk, and sprinkle over the floor with a pepper-castor.

87/2. *G. B.*—(1) "The Working-man's Model Family Botanic Guide," published by W. Fox & Sons, Sheffield, is a book which will suit you. (2) Solution of cyanide of potash takes out marking-ink from linen.

232/12. *Fairplay*.—We think it was the cost of telegraphing rather than the reason you suggest to which the omission you refer to was due.

231/66. *Lux*.—If your shop is lofty enough there is no light which can compare with the Wenham for brilliancy and economy. Write to the Company, Upper Ogle Street, Fitzroy Square, W., for particulars.

225/23. *B. C.*—(1) Hargreave's "Manual of Diseases of the Sexual Organs" is advertised in this journal, and much used by chemists. (2) We shall have a veterinary manual for chemists ready shortly.

223/32. *Inquirer (Calcutta)*.—Ink for Brass Stamp.—This should be made with linseed and olive oils. If a red colour is wanted, rub the roseine crystals with their own weight of sugar to a very fine powder, make into a cream with turpentine, and then add sufficient of a mixture of linseed oil 2 parts, and olive oil 1 part.

223/44. *W. E. E.*—Syrupus Picis, U.S.P.—This has been highly spoken of by Dr. Wm. Murrell. The formula is:—

	Parts
Tar .. .. .	6
Water .. .. .	12
Bolling distilled water .. .. .	50
Sugar .. .. .	60

Put the first two together, and stir occasionally for twenty-four hours; then pour away the water. Now add the boiling water to the tar, stir briskly for fifteen minutes, and set aside for thirty-six hours, stirring occasionally. Decant the water, filter it, and dissolve the sugar in the filtrate.

225/18. *Junior*.—(1) Try one of Clarke's stoves, of which you will see an advertisement in the DIARY. They are much used by chemists. (2) The Pharmacopœia "Additions" gives good directions for making granular preparations on a small scale. We have found it better to heat the whole of the mixture until it assumes a pasty condition, and while in this state pass it through a wire sieve (ten or twelve meshes to the inch), collecting the granules in a uniform layer upon sheets of clean paper. Dry in a warm place. A gas-furnace does very well as a source of heat, and you may use an enamelled iron dish to heat the powders in. They must be well mixed before heating. Try a few 1-lb. batches, and you will soon get into the way of the thing.

224/40. *Sub Umbrâ Floresco*.—Gout and Rheumatic Mixture:—

Salicin .. .. .	80 grains
Colchicum wine .. .. .	80 minims
Acetate of potash .. .. .	2 drachms
Tincture of cardamoms .. .. .	$\frac{1}{2}$ oz.
Chloroform-water to .. .. .	6 "

Make a mixture.

A sixth part of this to be taken at 12 noon and 4 P.M.

223/31. *Brilliantine*.—We suspect that your Non-greasy Brilliantine is, like most of that class nowadays, simply a mixture of glycerine 2 parts, and spirit 1 part, coloured with tincture of saffron and perfumed. Sometimes honey is added, as in the following formula:—

	Oz.
Glycerine .. .. .	1
Eau de Cologne .. .. .	1
Honey .. .. .	2
Rectified spirit .. .. .	4
Tincture of saffron .. .. .	a sufficiency

Mix and filter.

189/53. *Alf*.—(1) The Dusting-powder for Lozenges is a mixture of starch and sugar. Equal parts are generally used, but yours contains much less sugar. (2) One part of wax to seven of ether is meant as the quantities to start with. Much less of the wax is dissolved, but sufficient for coating pills. (3) The best browning colouring-matter is caramel made by heating sugar.

#### Information Supplied.

202/53. *Cleansing-powder*.—Mr. J. F. Brown, Dover, refers this inquirer to Wm. Bailey & Son, Horseley Fields Chemical Works, Wolverhampton.

#### Information Wanted.

[Replies to the following requests are solicited by correspondents of THE CHEMIST AND DRUGGIST.]

224/59. Pitched waterproof paper—where made and obtainable.

230/46. Makers of Scotch neatsfoot oil.

229/39. Makers of "Salisbury" glue, and why so called?

231/60. How is iodic acid used as a lotion for application to the tongue or similar mucous membrane?

JAN. 31, 1891

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In view of this increase of business, we have purchased the **largest portion** of the **Sponge Fishery of this Season**. Being in a position to operate on such a large scale we have been enabled to buy at very low rates, and can consequently **quote you lower prices** than any other house.

Holding as we do the **largest stock of Sponges** in the world, we can offer our buyers the **very best selections** of goods.

We hope to be favoured at an early date with your orders for the coming season.

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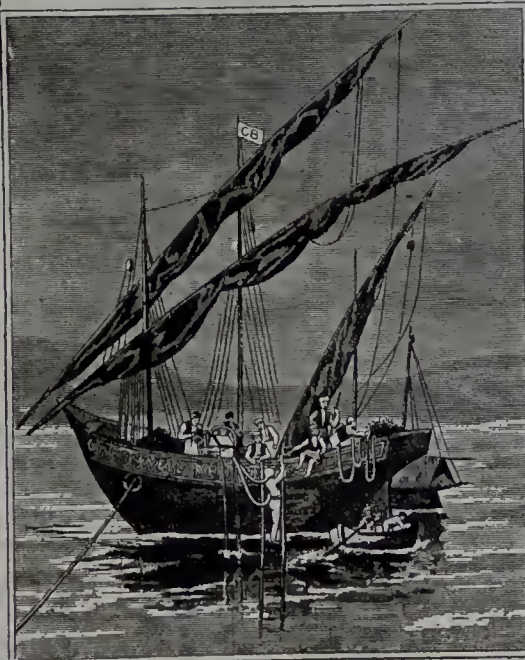
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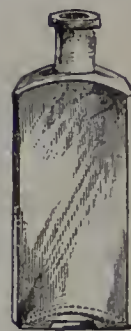


Fig. 1a.

**BOTTLES—GLASS, DISPENSING.**

4a. SPECIAL SQUARES, Tinted (Fig. 1a)—

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7/9	8/3	8/6	9/-	9/-	12/9	13/6	18/6	22/- gross.

4b. SPECIAL SQUARES, White (Fig. 1a)—

2	3	4	6	8	10	12	16	20 ounce.
8/6	8/6	9/6	11/-	13/6	16/6	18/6	20/6	25/6 gross.

The above quotations are for original crates, containing about—

2	3	4	6	8	10	12	16	20 ounce.
16	12	10	8	7	5½	4	3	2½ gross.

We also supply in 1-gross Crates at an advance of 1/- per gross, which is smallest quantity supplied.

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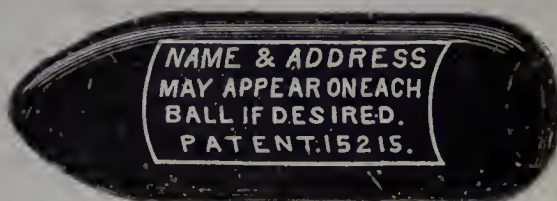
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(PATENTED.)



"The obvious superiority of these balls over the old paper-wrapped articles will impress the most stolidly conservative of farmers."—*The Chemist and Druggist.*

No. 4.—Alterative Balls	...	...	24/	per gross.
" 5.—Astringent Balls	...	...	24/	"
" 12.—Condition Balls	...	...	24/	"
" 6.—Cordial Balls	...	...	24/	"
" 7.—Cough Balls	...	...	24/	"
" 16.—Cough Balls	...	...	27/	"
" 17.—Cough Balls	...	...	27/	"
" 8.—Diuretic Balls	...	...	24/	"
" 9.—Fever Balls...	...	...	24/	"
" 1.—Physic Balls	...	...	24/	"
" 2.—Physic Balls	...	...	30/	"
" 3.—Physic Balls	...	...	36/	"
" 18.—Physic Balls	...	...	42/	"
" 19.—Physic Balls	...	...	48/	"
" 15.—Stimulating Balls	...	...	24/	"
" 10.—Tonic Balls...	...	...	24/	"
" 11.—Tonic Balls...	...	...	20/	"
" 13.—Worm Balls	...	...	30/	"
" 14.—Worm Balls	...	...	60/	"

#### PRIVATE FORMULÆ.

WYLEYS & CO. will be glad to prepare Patent Duraplastic Balls from private recipes.

**PAPAIN**

(Dr. Finkler &amp; Co.)

A PURELY VEGETABLE DIGESTIVE FERMENT, which acts in ACID, ALKALINE, and NEUTRAL SOLUTION, and is capable of digesting one thousand times its own weight of FRESH FIBRINE.

It is recommended by the most eminent ENGLISH and FOREIGN authorities in the treatment and cure of

**DYSPEPSIA AND DIPHTHERIA,**

and has been most successful in the treatment

**Externally**, of Diphtheria, Croup, Chronic Eczema, Psoriasis, Ulcers, Boils, Fissure of Tongue, Ear Diseases.

**Internally**, of Acid Dyspepsia, Chronic Gastric Catarrh, Anorexia, Dysentery, Chronic Diarrhoea, and other Diseases of the Digestive Organs.

Packed in bulk and bottles of 16, 8, 4, 1, and  $\frac{1}{2}$  oz., or of 500, 250, 100, 25, and 15 grammes; each package has attached a **short and convenient test** for ascertaining quickly the efficiency of the **Papaïn**, and also an abbreviated report by E. G. Clayton, F.I.C., F.C.S., &c., treating on the value of Papaïn (Dr. Finkler & Co.) as a digestive ferment.

**PILLS.**—Papaïn (Dr. Finkler & Co.), packed in bottles containing 100, 50, or 25 pills of one or two grains each.

**TABLOIDS.**—Papaïn (Dr. Finkler & Co.), packed in bottles containing 100 and 25 tabloids of two grains each.

**GLYCEROL.**—(Papaïn and Acid Glycerine), packed in 4, 8, and 16 oz. bottles. (A very valuable preparation for internal use, will keep in any climate.)

**EXALGINE**

Gold Medal, Paris  
Exhibition, 1889.

(BRIGONNET).—The new analgesic, manufactured by Messrs. BRIGONNET & NAVILLE, La Plaine St. Denis (France), recommended for Neuralgia, Sciatica, Angina, &c., by Bardet, Gaudineau, Binet, Dujardin-Beaumetz, Desnos, and lately by Prof. Fraser, M.D., F.R.S., F.R.C.P.E., of Edinburgh. (See *British Medical Journal*, February 15, 1890, page 344.)

J. Hurley, M.D., Queen Camel, reports very successful treatment of Sciatica, Lumbago, Neuralgia, Locomotor Ataxy, Gout in the hand. W. Paley, M.D., Ripon, of Sciatica. B. Walker, M.D., Kirkby Stephen, of Facial Neuralgia. J. J. Meacham, Surgeon, Manchester, of Angina Pectoris and Neuralgia. Geo. R. Gordon, M.D., Manchester, of Henneronia and Neuralgia. J. Young, M.D., Edinburgh, of Neuralgia. A. W. Martin, L.R.C.P., Manchester, of severe Neuralgia.

Packed in **one-ounce tins only**, closed with label bearing name, address, and registered trade mark of Messrs. B. & N., St. Denis.

**SALOL**

manufactured by Messrs. L. Durand, Huguenin & Co., Basle. The new antiseptic and anti-rheumatic remedy, most successful in the cure

**Externally**, of Ulcers, Wounds, Skin Diseases, specially Impetigo, and Eczema;

**Internally**, of Articular and Chronic Rheumatism, Dysentery, Summer Diarrhoea, Cholera, Blenorrrhagia, Gonorrhoea, Influenza.

Packed in card boxes of 7 lbs., 1 lb.,  $\frac{1}{2}$  lb., and  $\frac{1}{4}$  lb., bearing the manufacturers' names.

**TABLOIDS SALOL** packed in bottles containing 100 and 25 tabloids of 5 grains each.

**QUININE**

Gold Medal,  
Paris Exhibition.

manufactured by the Fabbrica Lombarda di Prodotti Chimici, Milan. Quinine Sulphate, Bisulphate, Bromide, Carbolate, Muriate, Phosphate, Salicylate, Valerianate, &c., Quinidine, Cinchonidine, and Cinchonine Salts.

Packed in tins of 100 and 25 oz., or bottles of 1,  $\frac{1}{2}$ , and  $\frac{1}{4}$  ounces.

OBTAINABLE THROUGH THE WHOLESALE DRUG HOUSES, AND OF

**B. KÜHN, 36 St. Mary-at-Hill, LONDON**

(Wholesale quantities only),

SOLE WHOLESALE AGENT FOR THE UNITED KINGDOM AND EXPORT.

A Pamphlet containing the latest literature of the Drug will be sent Post Free.

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**MANUFACTURERS OF PURE CHEMICAL PRODUCTS**

**AND PATENTEES OF**

**CHLORALAMID**

*SEE "BRITISH MEDICAL JOURNAL," 14 DECEMBER, 1889.*

Declared by the highest medical authority in this country to effect sound and comfortable sleep better than any of the Hypnotics which have been introduced during the last few years.

**DOSE, FROM 30 TO 50 GRAINS.**

**Important to Dispensers.**—Tell the patient to dissolve the Chloralamid in Whisky or Brandy, and afterwards add cold water to taste.

**DO NOT APPLY HOT WATER TO DISSOLVE OR THE PREPARATION WILL DECOMPOSE.**

Full particulars for Medical Practitioners and Dispensing Chemists, giving also interesting Clinical Reports, will be sent Post Free.

This Preparation, securing sleep without any ill effects, neither interfering with the activity of the heart, respiration, temperature, digestion, or urine secretion, will not fail to be the most favourite Hypnotic of the future.

Wholesale Drug and Chemical Houses may obtain Schering's Chloralamid from

**A. & M. ZIMMERMANN, LONDON**

**SOLE WHOLESALE AGENTS.**

# T. HOWARD LLOYD & CO.

Wholesale Druggists and Manufacturing Chemists,  
**HIGH STREET & TOWNHALL LANE,  
LEICESTER.**

**"LLOYD'S LEICESTER"** Soluble Pearl Coated Pills.

**"LLOYD'S LEICESTER"** Compressed Tablets.

**"LLOYD'S LEICESTER"** Gelatine Coated Horse Balls.

**"LLOYD'S LEICESTER"** Fluid Extracts and  
Concentrated Infusions and Liquors, &c., &c.

Mr. T. HOWARD LLOYD (18 years partner in the firm of John Richardson & Co., Leicester) begs to inform the Trade that he is now carrying on business at the above address.

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**Private Formulæ carefully prepared.**

**A COMPLETE LIST FORWARDED UPON APPLICATION.**

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## CYRIAX & FARRIES.

### WHOLESALE & EXPORT DRUGGISTS.

Manufacturers of

Pharmaceutical Preparations.  
Counter Requisites.

Commercial & Fine Chemicals.  
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### IMPORTERS & DISTILLERS OF ESSENTIAL OILS.

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Patent Medicines.

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Chemical and Pharmaceutical Apparatus.  
Surgical Instruments.

&amp;c., &amp;c.

### SPECIALITIES.

#### SOLUBLE PODOPHYLLIN (in Scales)

A definite combination of the active resins of Podopayllin rhizome; soluble in water, proof spirit, or glycerine. An accurate, agreeable, and convenient form in which to administer the drug.

#### MONOBROM-ACETANILIDE (BURGOYNE'S).

ORIGINALLY PREPARED BY US.

Contains 37 per cent. of Bromine; odourless, tasteless, soluble in alcohol. Designed to combine the sedative effect of Bromides with the antifebrile properties of Acetanilide (Antifebrin). Useful in neuralgia, rheumatism, &c.

Dose, 1 to 2 grains every three hours.

#### MALTOPEPSYN.

Possesses digestive power ten times greater than the best Pepsin in the market; digests fibrin and casein, emulsifies fats, converts starch into glucose. A combination of all the digestive principles with the nutritive qualities of Malt Extract and the nerve-invigorating properties of the Acid Phosphates.

#### SOLUBLE ESSENCES.

Of rich and excellent flavour and great strength; perfectly miscible with water, forming bright solutions. Specially suitable for cordials and for aerated beverages.

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PARKE, DAVIS & CO.'S Fluid Extracts, Pharmaceutical Preparations, &c., &c.

DE LAIRE'S Vanilline, Heliotropine, Coumarine, &c.

CHANTEAUD'S Seidlitz and Dosimetric Granules.

THE RIO CHEMICAL CO.'S Aletris Cordial, Celerina, and Pinus Canadensis.

VON HEYDEN'S Salicylic Acid and Salts.

Offices: 12 COLEMAN STREET;

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Hyposulphite of Soda.

Oxalate of Potash.

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Ammon. Muriate.

Boracic Acid.

Acetanilide.

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**J. H. PESTALOZZI,**

WAEDENSWEIL.

Sugar of Milk. Lactic Acid.

Terpinol. Terpinhydrate.

Potass. Permanganate.

Acetate of Lead.

Glycerine.

Acetate of Amyl.

Chloroform.

Alcohol.

Ethers.

**IG. SILES, REGGIO.**

VERY SUPERIOR QUALITY

ESS. BERGAMOT. ESS. LEMON.

ESS. ORANGE (Sweet). ESS. ORANGE (Bitter).

ESS. MANDARINE.

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**RAW MATERIALS FOR PERFUMERY**

Essential Oils. Floral Waters. Pomades.

PERFUMES IN BULK.

**ALMOND OIL, SWEET, and OLIVE OIL.**

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**BOTANIC DRUGS**

OF EVERY DESCRIPTION, WHOLE, CUT, CRUSHED, OR POWDERED.

Extracts. Tinctures. Liniments.

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FINEST AND PUREST QUALITIES FOR CULINARY & DOMESTIC USE.  
VARIOUS KINDS FOR TECHNICAL PURPOSES.

**GELATINE FOR EMULSION,**

"S" BRAND.

Thymol.

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Otto of Rose.

Insect Powder.

Fast Soap Colours.

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Chlorophyll.

Mineral Oil.

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Powd. French Chalk.

Confectioners' Colours

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London International and Universal Exhibition, 1884, Gold Medal Awarded for our Pharmaceutical Preparations  
Calcutta Exhibition, First-class Certificate and Two Prize Medals Awarded for our Pharmaceutical Preparations.

# HEWLETT'S

## LIQUOR SANTAL FLAV. c. BUCHU et CUBEBA

THE ORIGINAL PREPARATION.

Price (in England) 10s. 6d. per pound, packed (for Dispensing only) in 10-oz., 22-oz., 40-oz., and 90-oz. Bottles.

HEWLETT'S "PERMANENT" LIQUOR FERRI IODIDI.

LIQUOR EASTONI (HEWLETT'S).

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PHOSPHORISED COD LIVER OIL EMULSION (HEWLETT'S).

C. J. HEWLETT & SON, MANUFACTURING CHEMISTS, LONDON, E.C.  
40, 41, & 42 CHARLOTTE ST.,  
ESTABLISHED 1832.

*Physicians will oblige, when ordering Liq. Santal Flav. cum Buchu et Cubeba, by writing "Liquor Santal Flav. c. Buchu et Cubeba (Hewlett's)."*

London International and Universal Exhibition, 1884, Gold Medal Awarded for our Pharmaceutical Preparations.  
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## MIST. PEPSINÆ CO. C. BISMUTHO.

Highly recommended in various forms of dyspepsia, having a direct action upon the mucous membrane of the stomach and intestines as a sedative. It can be administered with marked and almost instantaneous effect in the irritative form of dyspepsia more especially when *pyrosis* is a conspicuous symptom, and pain occurs an hour or more after food. In simple neuralgic gastric pain following eating, occurring in feeble subjects, it is especially indicated, and even in *carcinoma* it has been used with great success in alleviating pain and vomiting.

In the dyspepsia of patients dependent upon some organic disease, and where there is a decided loss of nerve power, it is of singular service. Thus, for instance, a person after a meal complains of a peculiar gnawing and emptiness, with slight pain at the epigastrium, evident signs of general relaxation and loss of nerve power, clinical experience has shown that it is of great service as a tonic and stomachic. A portion of its value arises, it may be, from its action upon the spinal motor nerve centres. Be these things as they may, experience has abundantly demonstrated the value of the compound as a stomachic, anti-dyspeptic, and tonic, in general functional atony and relaxation, and in the various forms of dyspepsia, constipation, or diarrhoea, connected with atony of the visceral muscular coat, the Mist. Pepsinæ Co. c. Bismutho is a very valuable remedy. In the *exhausting* purging of *Phthisis*, accompanied with night sweats and restlessness, Dr. MATHEWS, of Nantwich, has used it with marked and appreciable effect.

Price (in England) 10s. 6d. per pound.

Physicians will oblige, when ordering Mist. Pepsinæ Co. c. Bismutho, by writing Mist. Pepsinæ Co. (Hewlett's).

Packed (for Dispensing only) in 10-oz., 22-oz., 40-oz., and 90-oz. Bottles.

LONDON MEDICAL RECORD REPORT.

MISTURA PEPSINÆ COMPOSITA CUM BISMUTHO.

"This combination of Messrs. HEWLETT is one which has been extensively tested, and with good results. It is justly popular in the profession as a very valuable and effective combination. It serves not only to improve *apepsia*, but to lessen the gastric pain and to facilitate difficult and painful digestion, without setting up any evils of its own. It is a very good crutch for persons of weak stomach to lean on."—January 15th, 1881.

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# DUNCAN, FLOCKHART & CO.

*Wholesale and Export Druggists,*

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## CHLOROFORM

(DUNCAN'S).

PREPARED FROM PURE AND METHYLATED SPIRIT.

Also CHLOROFORM (BLUE LABEL).

Put up in all sizes of bottles. A strap with Name and Trade Mark of the Firm is placed over the stopper of each bottle. For Export, in stoppered bottles, securely luted, and in hermetically sealed flasks when required.

N.B.—We guarantee all the above CHLOROFORMS to be PURE CHLOROFORM, answering all the tests of the British Pharmacopœia.

## CHLORIC ETHER

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This is a Special Preparation, quite different from Spir. Chloroformi, B.P., perfectly miscible with water, and always of the same strength.

## CASCARA SAGRADA CAPSULES,

In Boxes, at 1/6 and 2/6. 14/- and 24/- per dozen.

Each Capsule equal to Half a teaspoonful of Fluid Extract of Cascara Sagrada. The chief drawback to the use of this valuable drug, its unpleasant bitterness, is obviated when taken enclosed in Capsules.

## BLAUD'S PILL (Fr. Pharm.) CAPSULES.

(Each Capsule equal to 1, 2, or 3 Blaud's Pills.)

IN BULK and IN BOXES at the following prices:—

	PER 1,000	PER DOZEN BOXES	NUMBER IN BOXES			RETAIL PRICE		
1 Pill	10/	8/ 15/ 22/	3 doz.	6 doz.	12 doz.	1/	1/9	2/6
2 "	15/	" " "	2½ "	5 "	10 "	"	"	"
3 "	20/	" " "	2 "	4 "	6 "	"	"	"

## PICRENA.

THE UNIVERSAL INSECTICIDE.

SAFE — ECONOMICAL — EFFECTUAL.

This valuable insecticide, combining in a soluble form all the most powerful insect destroyers, is equally safe in the hands of the mere amateur as the skilled horticulturist, and effectually and rapidly clears plants of Aphides, Scale, Mealy Bug, Red Spider, Thrips, and other insect pests. It may be used with freedom, as even in a concentrated solution it does not injure the most tender leaves, while its great strength enables it to destroy even Vitis &c., even when diluted with 400 volumes of water.

RETAIL.

In Bottles, 1/6, 2/6 & 3/6

In Tins, 10/6 & 20/

In Bulk, 5 gallons and upwards, 9/ per gallon

WHOLESALE.

12/ 20/ & 28/ per Dozen.

84/ & 160/

6/ per gallon.

Bottles and Tins are not Returnable.

# C. R. HARKER, STAGG & MORGAN

WHOLESALE & EXPORT DRUGGISTS,

Manufacturing Chemists,

PROPRIETORS OF

FIELD'S SELECT PREPARATIONS

15 LAURENCE POUNTNEY LANE

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ARTHUR STREET WEST,

LONDON, E.C.



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**Saline.**  
**LIQUID EXTRACTS.**

Glycerine & Cucumber.

**CONCENTRATED WATERS,**

Liq. Papain et Iridin

**LIQ. EUONYMIN ET CASCARÆ SAGRADÆ CO.**

Liq. Pepticus.

Liq. Pancreaticus.

Liq. Santal c. Buchu et Cubeba.

Liq. Copaibæ c. Buchu, Cubeba, et Matico.

PRICE LISTS ON APPLICATION.

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**CHLORODYNE.**

Concentrated Liquors.

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# BICARBONATE OF SODA,

REFINED AND RECRYSTALLIZED.

PURE AND CHEAP.

## ANALYSIS.

Bicarbonate of Soda	...	...	...	...	97.20
Mono Carbonate of Soda	...	...	...	...	1.90
Sulphate of Soda	...	---	...	...	trace
Chloride of Sodium	...	...	...	...	.035
Moisture	...	...	---	...	.82
Insoluble	...	...	...	...	nil

# PURE ALKALI,

GUARANTEED 58 DEGREES,

EQUAL TO 98 PER CENT. OF CARBONATE OF SODA.

Most economical form of Soda for the use of Printers,  
Bleachers, Dyers; Glass, Paper, and Soap Makers.

# SODA CRYSTALS

OF THE FINEST QUALITY.

# BRUNNER, MOND & CO., LIM.

*Manufacturers of Soda by the Ammonia Process  
(Solvay's & Mond's Patents),*

NORTHWICH, CHESHIRE.

# JAMES WOOLLEY, SONS & CO.

DRUG MILLERS,  
WHOLESALE AND EXPORT DRUGGISTS,  
AND  
MANUFACTURING PHARMACEUTICAL CHEMISTS.

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LABORATORIES AND DRUG MILLS:  
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## ASSAYED DRUGS.

Opium, Cinchona, Scammony, &c.  
Their Powders and Preparations.

## SPIRITUS ÆTHERIS NITROSI, B.P.

Guaranteed of the official strength.

## ÆTHER NITROSUS & SOL. ÆTHER. NIT.

(1 to 7)

(1 to 3)

## SOL. ÆTHYL NITRITIS.

(3 per cent. in Absolute Alcohol and Glycerine.)

## SPIRIT. AMMON. AROMAT., B.P.

(Made from Volcanic Ammonia.)

## ISO-BUTYL NITRIS.

Glass Capsules of Iso-Butyl Nitrite.

In Metal Boxes of 10 Capsules, encased in Silk. Retail, 2s. 6d.

## THE "EXTRA PALE" COD-LIVER OIL.

Unchanged at 32° F.

TASTELESS COATED PILLS.

OINTMENTS LEVIGATED BY STEAM POWER.

IMPALPABLE POWDERS.

PURE AND COMMERCIAL CHEMICALS.

CHEMICAL APPARATUS.

DEALERS IN SURGICAL AND SCIENTIFIC INSTRUMENTS.

PRICES CURRENT AND CATALOGUES ON DEMAND.

TELEGRAMS—"PHARMACY MANCHESTER."

# Dr. J. COLLIS BROWNE'S CHLORODYNE.

THE ORIGINAL AND ONLY GENUINE.

## IMPORTANT CAUTIONS

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD,  
and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that 'Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as deliberately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.'

The VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the Court would have given Dr. Browne protection.'

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated 'that had application been made at a proper time and place, the Court would have found means to restrain the Defendant from misrepresenting the decision of the Vice-Chancellor.'

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepresentation of the decision of Vice-Chancellor Wood.'

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the *Times*, November 14th, 1865, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never used any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant publishes the said testimonial as referring to his medicine.

The Editor of the *Medical Times*, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published by the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the inventor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation; nevertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now incumbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the Government Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts at analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

ORIGINAL AND

## FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:—



ONLY GENUINE

Apothecaries' Hall,	London	Frazer & Green,	Glasgow	Morson, T., & Son,	London
Allen, Hanbury & Co.,	"	Gale & Co.,	London	Newbery & Sons,	London
Bales Brothers,	"	Giles & Son,	Clifton	Oldham, G., & Co.,	Dublin
Banks & Richards,	Birmingham	Goulding, Messrs.	Cork	Parsons & Richardson,	Leicester
Barron, Harvey & Co.,	London	Gratton & Co.,	Belfast	Peake, Allen & Co.,	Dublin
Bell, John, & Co.,	"	Grimwade, Ridley,	London	Raines & Co.,	York
Bourne & Taylor,	"	Grindley & Son,	Chester	Raines & Co.,	Edinburgh
Corbyn & Co.,	"	Hearon, Squire & Francis,	London	Sang & Barker,	"
Cox & Gould,	"	Hodgkinson, Tonge & Stead,	"	Sanger, J., & Sons,	London
Curling & Co.,	"	Hopkins & Williams,	"	Sim, James, & Co.,	Aberdeen
Curtis & Co.,	"	Hovenden, R., & Sons,	"	Smeeton, W.,	Leeds
Davy, M'Murdo & Co.,	"	Hunt & Co.,	Exeter	Southall & Co.,	Birmingham
Dobbin, W., & Co., Limited	Belfast	Hunt, A., & Co.,	"	Sutton, W., & Co.,	London
Drew, Barron & Co.,	London	Johnson, J. H. & S.,	Liverpool	Tomlinson, Hayward & Co.,	Lincoln
Drew, B., & Alexander,	"	Langton, W., & Co.,	London	Treacher, Hodgkinson & Co.,	London
Dunn & Company,	"	Lynch & Co.,	"	Westrup, J. B.,	Kensington
Edwards, W.,	Exeter	Mander, Weaver,	Wolverhampton	Westwood & Hopkins,	London
Evans, Gadd & Co.,	London	Marsden & Sons,	London	Woolley, James,	Manchester
Evans, Lescher & Webb,	Bristol	Maw & Son,	"	Wyleys & Brown,	Coventry
Ferris & Co.,	London	Meggison & Co.,	Edinburgh	Yates & Co.,	London
Foulger, S., & Son,	London	Mackay, John, & Co.,	Edinburgh		

After these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemist can conscientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician. The value of the remedy alone creates the great demand.

Sold in Bottles—1s. 1½d., 2s. 9d., 4s. 6d., and 11s. Usual Discount to the Profession.

SOLE MANUFACTURER,

## J. T. DAVENPORT, Pharmacist,

88 GREAT RUSSELL STREET, BLOOMSBURY SQUARE, LONDON.

# PETROLEUM JELLY.

Equal to VASELINE and much CHEAPER.

**GOLDEN, YELLOW, RED, AND WHITE.**

ANSWERS ALL REQUIREMENTS OF THE B.P.

Large 1d., 2d., & 3d. Tins, in 1-gross Boxes, and in usual-size Tins & Casks.

Save 25 per cent., and write for samples and quotations from the makers,

**HAMILTON & CO., LIM., WANDSWORTH, LONDON, S.W.**

## OXY-IODINE COMPOUNDS.

AS SUGGESTED BY DR. HUGH WOODS.



**Liq. Calcis Iodinatæ.**—A solution of Hypiodite of Calcium. Very effective in curing Gout, Rheumatism, Syphilis, Strumous or Tubercular Disease, Goitre, &c. Highly antiseptic and deodorant. Dose—M. v to xx. Price, 4-oz. bottles, 1/2; 8-oz., 2/; 16-oz., 3/6

**Liq. Potassæ Iodinatæ.**—A solution of Hypiodite of Potassium. An extremely powerful, safe, and unirritating antiseptic. Useful in same diseases as above. Cures parasitic and other skin diseases. Dose—M. v to x. Price, 4-oz. bottles, 1/4; 8-oz., 2/4; 16-oz., 4/.

**Red Oxyiodide of Bismuth.**—Very superior to Iodoform. Odourless and unirritating. Powerfully antiseptic. Cures wounds, sores, eczema, intertrigo, chapped hands, sweating feet, &c. Price 1/6 per oz.; ointment (1 in 10), 3/6 per lb.

**Yellow Oxyiodide of Bismuth.**—An excellent antiseptic application to the throat, nose, &c. Very valuable for internal use in cancer of the stomach, gastric ulcer, dyspepsia, vomiting, &c. Dose—5 to 20 grains. Price, 1/4 per oz.; ointment (1 in 10), 3/ per lb.

Leaflets descriptive of above, and monthly price current, on application.  
Special terms to Hospitals and Public Institutions.

**WILLOCKS, FRANCIS & BUTLER, WHOLESALE AND EXPORT DRUGGISTS,**

ESTABLISHED 1751,

**101 HIGH HOLBORN, LONDON, W.C.**

## BARRON, HARVEYS & CO.

GILTSPUR STREET, LONDON, E.C.

Beg to inform their friends and the Trade generally that, having purchased the Business of

**BARRON, SQUIRE & CO., BUSH LANE,**

and also the various Formulæ of the Special Preparations of

**JAMES BASS & SONS, HATTON GARDEN,**

they are prepared to execute orders for the same, and pledge themselves to supply them in all their integrity.

*Specimens of these Preparations have remained in the Museum of Kew Gardens during 23 years without deterioration.*

# BAYLEY'S WOOD OILS.

Having been repeatedly asked whether I intended to take any measures to prevent the cutting of Bayley's Wood Oils, I take this opportunity of remarking that, in my experience, such precautions as are at present being adopted by firms to prevent cutting are utterly unavailing. The adjoining paragraph on this subject is extracted from the *British and Colonial Druggist*, Jan. 9, 1891, which aptly illustrates my opinion on the subject. By the systems at present in vogue, not only is the retail trader hampered, but any unprincipled person, if he so wills, may evade such agreement with impunity.

To any Chemist who will co-operate with us we will give advantageous terms and invite correspondence.

C. BAYLEY, Chemist, 2 Park Street. WALSALL.

## WELL MEANT, BUT USELESS.

Several chemists inform us that they have been notified by their wholesale house in London that the latter cannot obtain supplies from the maker of a proprietary preparation unless they enter into an agreement, binding not only themselves but their customers, to maintain certain prices. The wholesale house in question declines to give such a guarantee, and consequently supplies are not obtainable. These correspondents ask our opinion of the matter. We can only say in reply to the inquiries addressed to us, that the course proposed by the makers in question as a remedy for "cutting" is simply impracticable. The same thing has been tried by the makers of other preparations and in various trades, and, so far as we are aware, it has never accomplished anything beyond causing temporary inconvenience to their customers and probably the reduction of their own output. Individual attempts to deal in this way with the reduced prices which are the outcome of modern competition are of no practical use. We are as much alive as anyone to the benefit which would accrue to all retailers if prices could be kept up, but this will never be accomplished by isolated arrangements of this description.

## DEUTSCHMANN & WORONIECKI, LONDON AND HAMBURG.

CHEAPEST HOUSE IN THE TRADE FOR

## GLUCOSE, DEXTRINE, FARINA, CARAMEL, PATENT GUM & GLUE.

LONDON BRANCH:—101 LEADENHALL STREET, E.C.

Trade Notice.]  [Trade Notice.

## ATKINSON & BARKER'S ROYAL INFANTS' PRESERVATIVE.

Established by 90 years' experience as a safe and effective Medicine.

Sold universally by Chemists and Patent Medicine Dealers.

WHOLESALE AND EXPORT ORDERS SUPPLIED FROM THE MANUFACTORY—

11 RUSSELL STREET, DOWNING STREET, MANCHESTER.

SHOW CARDS AND BILLS ON APPLICATION.

Established  
1843.

## THOMPSON & CAPPER,

Established  
1843.

## WHOLESALE & EXPORT HOMŒOPATHIC CHEMISTS,

55 BOLD STREET, LIVERPOOL,

And (late HENRY TURNER & CO.)

51 PICCADILLY, MANCHESTER.

ILLUSTRATED PRICE LIST ON APPLICATION.

## THOMPSON & CAPPER'S DENTIFRICE WATER.

Sells well everywhere, its beneficial qualities being attested to by physicians in all parts of the world. (See Testimonials.)

In 1s. 6d., 2s. 6d., 4s. 6d., and 8s. 6d. Bottles.

## Specialities.

**CACHOUS, HOOPER'S.**

The original Cachou Aromatisé (Hooper's), coated with pure silver. Ladies' Cachous. Cachou Lozenges. Supplied in all forms, bulk or boxed.

**PASTILLES, FUMIGATING.**

Hooper's Original Pastilles. The pleasant aroma given off in burning places them as the best goods of the class. In handsome boxes, or in bulk.

**SUPPOSITORIES, MEDICATED**

Our Glycerine Suppositories (two sizes, children's and adults') are having a large sale. Any formula made, the greatest care being used in manipulation and division of medicaments.

**CAPSULES, FLEXIBLE.**

Flexible or semi-flexible. Specially prepared for hot climates. All material suitable for this form of administration capsuled, if wished, with client's own materials. Labels, with name and address, supplied with any quantity, however small.

**B. HOOPER & CO.**

WHOLESALE

Manufacturing Pharmacists,

**134 UPPER THAMES ST.,****LONDON, E.C.**

(Removed from 43 King William Street, E.C.)



Are now prepared to supply all orders they may be favoured with with promptness, having erected new machinery to meet the demands of their increasing business.

Shippers and Merchants are requested to send for quotations.

## Specialities.

**PESSARIES & BOUGIES.**

Any form carefully prepared. We claim for our Bougies, Pessaries, and Suppositories a low melting-point, non-friability (a frequent complaint against bougies), and perfect division of drug, no matter how heavy and fusible.

**PERLES. FRENCH.**

These small round capsules, generally called French perles, have lately been introduced by us into this country. They sell freely on the Continent, and for some drugs have special advantages over capsules.

**HYPODERMIC SOLUTIONS.**

Huggett's Hypodermic Solutions, supplied by us, retain first rank among this class of preparations, being easily administered, always ready, non-changeable, and made with great care.

**COMPRESSED PELLETS.**

The high quality of our compressed medicines has secured us a full measure of success. We compress all preparations capable of being made in this form. Supplied in bulk, boxes, and bottles. Specify "Hooper" when ordering.

**COMPOSITION ESSENCE.****"RAIMES & CO."****UNEQUALLED FOR AROMA AND STRENGTH.**

9½d. per lb. in W. Quarts; 8½d. per lb. in 10-Gallon Casks; 5 per cent. discount.

**RAIMES' CACHOUS.**

RED AND WHITE ROSES, Size and Shape THE MOST POPULAR CACHOU IN THE TRADE ○ FRAGRANT "BOUQUET" CACHOU ○

HELIOTROPE ○ VIOLET ○ ORANGE BLOSSOM ○ PRIMROSE ○

The excellence of the perfume and the superior make of these Cachous create a great demand wherever they are introduced.

Price 2s. 6d. per lb., 5 per cent. discount.

Samples on application

Parcels of 14 lbs. forwarded carriage paid, with a handsome Glass Show Jar gratis (Fig. A, No. 5. Maw's list), on receipt of P.O.O. for 3½s.

**RAIMES & CO., WHOLESALE DRUGGISTS,  
YORK AND EDINBURGH.**

London Wholesale Agents, TIDMAN & SON, 21 Wilson St., Finsbury.

**T. & H. SMITH & CO.**

MANUFACTURERS OF

**MORPHIÆ HYDROCHLOR.**

In powder and crystals.

**MORPHIÆ ACETAS****MORPHIÆ TARTRAS**Introduced by us and specially prepared  
for hypodermic treatment.**CODEINE APOMORPHIÆ MUR.****ALOIN RESINA SCAMMONII****JALAPINE****SALICINE****CHLOROFORM PURE****CHLOROFORM METH.**Our brand has been for many years known to  
the Wholesale Trade as absolutely pure.**GINGERINE****CAPSICINE****CAMPHOR MONOBROM.**

EDINBURGH Address—21 Duke Street.

LONDON Address—12 Worship Street, E.C.

NEW YORK Office—20 Cedar Street. DILLON &amp; CO., Agents. [1]

**SYMES & CO. LIVERPOOL**

PHARMACEUTICAL CHEMISTS, EXPORT DRUG MERCHANTS,

IMPORTERS OF BRAZILIAN DRUGS, AMERICAN AND CONTINENTAL SPECIALITIES.

ORIGINATORS AND

MANUFACTURERS OF

**OL. LAVAND. RECT.**

Largely replacing the Mitcham Oil, 21/ lb.

Hydrobromic Syrup of Hypophosphites.

**LAC BISMUTHI.****OL. LIMONIS RECT.**Fine quality, keeps well. 6/ lb.,  
Bottles Free.

Lac Bismuthi et Ceril, &amp;c.

**BUNTER'S****PREPARATIONS FOR THE TEETH**

Are the PUREST, SAFEST, and BEST that can be used, containing nothing of a deleterious nature. They are strongly recommended by Drs. E. Smith, M.R.C.S., Prof. W. Wilson, M.D., Gordon Stables, M.D., R.N., Geo. H. Jones, D.D.S., F.R.S.L., F.R.M.S., &amp;c., Andrew Wilson, M.D., F.R.S.E., &amp;c., &amp;c., J. Hounsell, F.R.C.S., and many others.

**BUNTER'S NERVINE FOR TOOTHACHE,**

gives permanent relief by Painless constriction of the Nerve in Decayed Teeth, forms a Stopping, arrests Decay, saves Extraction, Sleepless Nights prevented, Neuralgic Headaches and all Nerve Pains relieved. As a NERVE TONIC it gives strength to the nervous system, invigorates the entire frame, affording relief and effecting a cure in many complaints over which the nerves exert control. Invented by G. B. BUNTER, Surgeon Dentist, Maidstone. Price 1s. 1½d. and 2s. 9d.

**PURILINE TOOTH WASH**

for the TEETH, GUMS, and BREATH. A pure, perfect, and refreshing Fluid Dentifrice. A few drops in water used daily will thoroughly Cleanse, Beautify, and Preserve the Teeth, polish the Enamel, prevent Tartar, destroy all living "Animalculæ." It is Absolutely Pure and Harmless to the youngest child or most delicate constitution. Used as a Tooth Wash after each meal will keep the mouth in a delicious condition of comfort, health, purity, and sweetness, for ever. 1s. and 2s. 6d.

**BUNTER'S DENTINE,**

a Permanent Stopping for Decayed Teeth. One can easily prepare and place it in the cavity of the Tooth in a soft state, and in a short time it becomes a perfectly hard and white Enamel, forming, as it were, a part of the original substance of the Tooth. Price 1s. 6d.

**PURILINE TOOTH POLISH,**

a pure and perfect article for Cleansing the Teeth Will Purify and Beautify the Teeth with a Pearly Whiteness, polish the Enamel, prevent Tartar, and destroy all living Germs (Animal or Vegetable), which are the most powerful source of decay to all Teeth. It is not a Powder or Soft Paste that will scatter over clothing and soil the toilet: it is a Dental Paste of stiff consistency, non-gritty, and Absolutely Pure and Harmless to use. It is neatly put up, forming a sightly Toilet Article, or may be carried in the pocket in any climate of the world, without injury or losing its virtues. Price 1s.

Proprietor—A. WILSON, 422 CLAPHAM ROAD, LONDON, S.W.

## Specialities.

**CACHOUS, HOOPER'S.**

The original Cachou Aromatisé (Hooper's), coated with pure silver. Ladies' Cachous. Cachou Lozenges. Supplied in all forms, bulk or boxed.

**PASTILLES, FUMIGATING.**

Hooper's Original Pastilles. The pleasant aroma given off in burning places them as the best goods of the class. In handsome boxes, or in bulk.

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**CAPSULES, FLEXIBLE.**

Flexible or semi-flexible. Specially prepared for hot climates. All material suitable for this form of administration capsuled, if wished, with client's own materials. Labels, with name and address, supplied with any quantity, however small.

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Huggett's Hypodermic Solutions, supplied by us, retain first rank among this class of preparations, being easily administered, always ready, non-changeable, and made with great care.

**COMPRESSED PELLETS.**

The high quality of our compressed medicines has secured us a full measure of success. We compress all preparations capable of being made in this form. Supplied in bulk, boxes, and bottles. Specify "Hooper" when ordering.

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In powder and crystals.

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Introduced by us and specially prepared  
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JALAPINE

SALICINE

CHLOROFORM PURE

CHLOROFORM METH.

Our brand has been for many years known to  
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CODEINE

APOMORPHIÆ MUR.

GINGERINE

CAPSICINE

ALOIN

RESINA SCAMMONII

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EDINBURGH Address—21 Duke Street.

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NEW YORK Office—20 Cedar Street. DILLON & CO., Agents. [1]

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Hydrobromic Syrup of Hypophosphites.



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Proprietor—A. WILSON, 422 CLAPHAM ROAD, LONDON, S.W.

# NITROGLYCERINE TABLETS



Tabellæ Nitroglycerini, B.P. 1885 (Martindale).

By authority of the Medical Council, the compilers of the British Pharmacopœia have adopted and made OFFICIAL Nitroglycerine Tablets, as Manufactured by W. M. during the last ten years. The Nitroglycerine is in a perfectly fixed solution in Obocolate. The Tablets are palatable, and weigh ONLY 2½ grains each. They are sold at the following prices:—

In Boxes, Retail ... .. 2s. 6d. and 4s. 6d. each.

*For export to hot climates, corresponding quantities are supplied in bottles.*

For Hospitals and Dispensing, in Bottles, 2 oz., 4 oz., 8 oz., and 16 oz. in each

Also CAPSULES OF IODIDE OF ETHYL, covered with Silk, 8 in a Box, Retail, 2s. 6d.

“ “ NITRITE OF AMYL, “ “ 12 “ “ 2s. 6d.

W. MARTINDALE, PHARM. CHEMIST, 10 New Cavendish St., Portland Place, W

## PILL BOXES.

For quotations of all descriptions see Druggists' Sundries List of undersigned.

*See Advertisement, page 101.*

EVANS, SONS & CO.

LIVERPOOL.

LONDON:

EVANS, LESCHER & WEBB,

60 Bartholomew Close.

CANADA:

EVANS AND SONS, LD.

Montreal, Toronto, and Victoria,  
British Columbia.

## DINNEFORD'S FLUID MAGNESIA



PERFECT IN PURITY AND UNIFORM IN STRENGTH.

The most efficacious antacid and mild aperient for Delicate Constitutions, Ladies, Children, and Infants.

OF ALL WHOLESALE DRUGGISTS

# CURTIS & Co's GRAN. EFF. BISMUTH, PEPSINE & STEEL.

[ESTABLISHED 1820.]

[ESTABLISHED 1820.]

BISMUTH AND PEPSINE ... ..	5 grs. each to ʒj.	IRON AND BISMUTH ... ..	5 grs. each to ʒj.
BISMUTH, PEPSINE AND STRYCHNINE...	5.5 & $\frac{1}{50}$ grs. to "	IRON, QUININE AND STRYCHNINE	5.1 & $\frac{1}{50}$ grs to "
BISMUTH, PEPSINE AND QUININE ...	5.5 & 1 " "	IRON AND ARSENIC ... ..	5 grs. & 3 m. (Fowler's) "
BISMUTH, IRON AND QUININE ... ..	5.5 & 1 " "	IRON AND PEPSINE ... ..	5 grs. each to "
BISMUTH CITRATE ... ..	5 " "	IRON AND QUININE ... ..	5 & 1 grs. " "
BISMUTH, IRON AND STRYCHNINE ...	5.5 & $\frac{1}{50}$ " "	IRON, QUININE AND PEPSINE ...	5.1 & 5 " "

# GRAN. EFFER. ANTIPYRIN

EACH TEASPOONFUL CONTAINS 8 GRAINS.

ORIGINATED AND INTRODUCED BY CURTIS & CO.

CAFFEINE CITRATE ... ..	3 grains to ʒj.	SOD. SULPHATE ... ..	10 grains to ʒj.
CAFFEINE HYDROBROMATE ... ..	3 " "	SOD. SALICYLATE ... ..	10 " "
LITHIA CITRATE ... ..	5 " "	POTASH CITRATE ... ..	10 " "
LITHIA BENZOATE ... ..	5 " "	PHENACETIN ... ..	5 & 10 " "
LITHIA SALICYLATE ... ..	5 " "	QUIN. SALICYLATE ... ..	1 " "

And all other Granular Preparations.

SEE THAT THESE PREPARATIONS BEAR OUR NAME.

SPECIAL ATTENTION GIVEN TO EXPORT ORDERS.

CURTIS & COMPANY, 48 Baker Street, Portman Square, LONDON, W.

# WAND'S PEARL-COATED PILLS

Of the British, Foreign, and Hospital Pharmacopœias.

**LITTLE PILLS OR GRANULES—EVERY VARIETY.**

PRIVATE FORMULAS MADE UP, COATED OR UNCOATED.

## REVISION OF PRICES.

Shippers and all large Buyers are invited to correspond with view to obtaining Samples and Quotations.

The Coating used has proved free from all the objections hitherto urged against the use of a pearl coating for pills, being—

- 1.—Quickly Soluble.
- 2.—Free from Injurious Varnish.
- 3.—Durable and unaffected by great changes in temperature.
- 4.—Most Elegant in Appearance.

The Pills are most **CAREFULLY PREPARED** with drugs of the **BEST** quality, and are **WARRANTED TRUE** to **DESCRIPTION**.

*NOTE.*—Pills may be obtained Silver-coated at an extra charge of 2d. per gross; Gilded (Dutch Metal) at an extra charge of 1½d. per gross.

MANUFACTURED AT

**WAND'S PEARL-COATED PILL FACTORY,  
LEICESTER, ENGLAND.**

## FEEDING BOTTLES.

For quotations of all descriptions see Druggists' Sundries List of undersigned.

See Advertisement, page 101.

**EVANS, SONS & CO.**  
LIVERPOOL.

LONDON: EVANS, LESCHER & WEBB,  
60 Bartholomew Close.

CANADA:  
EVANS AND SONS, LD.  
Montreal, Toronto, and Victoria,  
British Columbia.



REGISTERED.—More effectual than Mustard Leaves. May be obtained through any Wholesale House. 3 6d. Tins, price 2s. 3d. per dozen. **CAPSICUM** is highly recommended in *The Lancet* by Sir J.—S—, M.D., and Dr. H— J— B— for the treatment of Rheumatism, Neuralgia, Bronchitis, Bronchial Catarrh, Sub-acute Gout, &c.

## THE SURGEONS' LINT,

V.B. QUALITY.

The superior quality of Newsome's Absorbent Surgeons' Lint is universally admitted. The V.B. quality is quite pure and of great superficial area and exquisite softness. The C, D, E, and F. qualities are equally pure and absorbent; E. is stronger in fabric.

**NEWSOME'S BLEACHED ROLLED BANDAGES, 3 in., 2½ in., 2 in. Also SURGICAL ABSORBENT OPEN BANDAGES.**

Specially Bleached & Grey Carded Cotton Wools, Absorbent & Bleached & Grey Waddings; also Sheet Waddings, Tow, &c.

THE TRADE SUPPLIED THROUGH THE LONDON AND PROVINCIAL WHOLESALE HOUSES, OR FROM

**C. NEWSOME,** Spinner and Manufacturer,  
JERSEY ST. MILLS, ANCOATS, **MANCHESTER.**

London Agents—B. PRATT & CO., 1 Wood Street, E.C.

Telegraphic Address—"Newsome, Ancoats," Manchester.

Address for Telegrams, "BOLLAND LONDON."



Established upwards of a Century.

# HODGKINSONS, TREACHER & CLARKE,

WHOLESALE AND EXPORT DRUGGISTS  
101 WHITECROSS STREET LONDON E.C.  
ESSENTIAL OILS PEARL COATED PILLS CHEMICALS TINCTURES IN BOND  
Manufacturers of Pharmaceutical Preparations  
PRICE CURRENT AND TERMS ON APPLICATION.

## MORRIS & CALLARD,

PONTAMMAN CHEMICAL WORKS,  
AMMANFORD, R.S.O., CARMARTHENSHIRE,  
MANUFACTURERS OF  
ACETIC ACID, P.B., ACETIC ACID FORT., SP. GR. 1.040.  
ACETATE OF SODA,  
PURE WOOD NAPHTHA, SULPHURIC ACID, & CHARCOAL

Telegraphic Address: "CALLARD, AMMANFORD."

PRICES AND SAMPLES ON APPLICATION.

## FUERST BROS., 17 Philpot Lane, LONDON, E.C.

Supply the Wholesale Trade with Chemicals, Drugs, and Oils direct from Manufacturers, personally known to themselves, they can, consequently, vouch for the purity of the articles they sell, viz.:

Castor Oil  
Almond Oil  
Olive Oil  
Cod Liver Oil  
Acetic Acid  
Tartaric Acid  
&c.

Phosphoric Acid  
Salicylic Acid  
Citric Acid  
Camphor  
Glycerine  
Glucose  
&c.

Tartar Emetic  
Castile Soap  
Pepsin, P.B.  
Albumen  
Cantharides  
Herbs and Extracts  
&c.

Insect Powder  
Essence of Lemon  
Neroli  
Floral Waters  
Perfumes  
Otto of Rose  
&c. [2]

Or any other kind or description of OILS, CHEMICALS, DRY-SALTERIES, DRUGS, ESSENTIAL OILS.

N.B.—ALL CURRENT ARTICLES KEPT IN STOCK. Samples and prices on application.

Telegrams—"FUERST LONDON."

Telephone No. 1050.

### 10. PILLS!! SUGAR-COATED! 10. PILLS!!



Medicine made pleasant for all.  
The Cheapest and Best Family Medicine  
The most Saleable Article in the Market  
Composed of the purest Drugs. Will keep  
good in all Climates any length of time.

The following varieties are put up in  
Glass Tubes, on Cards of 3 doz., or in  
gross boxes, at one penny per tube:—

Antibillious  
Asafoetida  
Bland  
Castor Oil  
Colocynth  
Dandelion  
Female  
Hamilton  
Liver  
Podophyllin  
Quinine  
Rhubarb  
Tonic  
Vegetable, &c.

Other varieties can be had if required.  
Terms—8s. per Gross, cash; 6 Gross  
assorted, in handsome mahogany glass  
case for 48s. Sent free by parcel post on  
receipt of P. O. Order or Postage Stamp.  
Agents and Purchasers of large quantities  
get a liberal discount. Send for Samples  
Aromatic Cathous, Chlorate of Potash  
Pellets and other varieties, put up as  
above at same price.

AGENTS WANTED.—APPLY AT THE

Anderston Apothecaries Hall, Washington St., GLASGOW.

## COURT PLASTERS.

For quotations of all descriptions see Druggists'  
Sundries List of undersigned.

See Advertisement, page 101.

EVANS, SONS & CO.  
LIVERPOOL.

LONDON:

EVANS, LESCHER & WEBB,  
60 Bartholomew Close.

CANADA:

EVANS AND SONS, LD.  
Montreal, Toronto, and Victoria  
British Columbia.

## CUSHMAN'S PATENT MENTHOL INHALER.

ENSURES SPEEDY AND EFFECTIVE RELIEF IN ALL CASES OF

Influenza, Coughs, Colds, Catarrh, Hay Fever, Asthma, Bronchitis, Sore Throat, and Nasal and Throat Affections generally.

In an article upon "Menthol in Acute Cold in the Head and other Affections of the Nose and Throat," in the *Medical Press*, January 8th, 1890, Mr. Lennox Browne, F.R.C.S., states:—

"But by far the most convenient method for personal use is to carry always the ingenious Pocket Menthol Inhaler known as Cushman's, which should be used not only on the first approach of an attack, but three or four times a day during an epidemic, and always in cold-catching weather by those subject to head colds."

*Used in the Central London Throat and Ear Hospital, and recommended by many leading Physicians.*

Retail, 2/ each. Trade, 15/ per doz. subject.

## THE CURE FOR CHILBLAINS BROKEN OR UNBROKEN.

KERPOD has during the past few years given unbounded proofs of its marvellous powers in PREVENTING AND CURING in a remarkably short space of time cases of broken or unbroken Chilblains, also cold hands or feet. After an hour or two the irritation subsides, and the inflammation disappears. IT IS THE ONLY INTERNAL CURE KNOWN. It supersedes Ointments, &c., as it does not soil linen, and gives no trouble in its application.

Sold in boxes at 1/1, 2/9, and 4/. Trade Terms, 9/6, 23/, and 34/ per dozen, subject.

Chemists desirous of putting up the Perles in their own boxes will be supplied at 5/ per Hundred, or 45/ per Thousand net.

# KOLA

FIVE TIMES more sustaining than Tea, Coffee, or Cocoa. KOLATINA as a beverage, and KOLA CHOCOLATE for eating, will enable anyone to support great bodily and mental fatigue, without being in the least inconvenienced. Highly recommended to persons of a dyspeptic nature, who are unable to take Tea, Coffee, or Chocolate.

Retail, 1/6, 2/6, and 5/. Trade, 12, 24/, and 48/ per doz. subject.

## KOLA CHOCOLATE

Is also supplied in boxes, retalling at

1/, 2/, and 3/6. Trade, 8/9, 16/, and 30/ per doz. subject.

## EUCALYPTUS HONEY

A NEW AND SUCCESSFUL AGENT,

For the treatment of Laryngeal, Bronchial, Pulmonary, Cardiac and Scrofulous Affections; in Malarial and Typhoid Fevers; in Whooping Cough and Influenza; in diseases of the Bladder and Kidneys; and in Catarrhs.

*EUCALYPTUS HONEY is not an artificial product, but a PURE HONEY collected by the bees from the Eucalyptus trees, hence the wonderful antiseptic and anti-malarial properties attributed to it by the Australians.*

Retails at 1/ and 2/ per bottle. Trade, 9/ and 18/ per doz. subject.

**THOMAS CHRISTY & CO., 25 LIME STREET, LONDON, E.C.**

# ARTHUR S. HILL & SON

(ESTABLISHED A.D. 1755),

Wholesale and Export Druggists and Manufacturing Chemists

101 & 103 SOUTHWARK STREET, LONDON.

SELECTED DRUGS, PURE CHEMICALS, & PHARMACEUTICAL PREPARATIONS.

PRICE LIST ON APPLICATION.

## LOFTHOUSE & SALTMER, MANUFACTURING CHEMISTS, WHOLESALE AND EXPORT DRUG MERCHANTS, HULL,

Manufacturers of all Pharmaceutical Preparations on the best and most improved principles. Quotations on Application

### DEALERS IN PURE CHEMICALS

For Medicinal, Photographic, and Commercial purposes.

Importers of Cod Liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot Otto de Rose, and all Essential Oils; Valerian Saffron; Vanillas; Fruit Essences; Carmine; Aniline Dyes; Bees' Wax, &c., &c.

Special Agents for Sicilian Sublimed Sulphur in 2-cwt. bags, and Rolled Sulphur in 3-cwt. casks. Most Favourable Quotations can be given on application.

# PRINTING & DOSING

OF

## PILLS & GRANULES

BY

A. CHAMPIGNY et CIE., Successors to MAISON L. FRERE,  
19 rue Jacob, PARIS.

Received the only Gold Medal given to Pharmaceutical Products at the Paris  
Universal Exhibition, 1878.

Also awarded at the International Exhibitions of  
MELBOURNE, 1880; AMSTERDAM, 1883; SYDNEY, 1888; **Gold Medals**  
PARIS, 1889.



The names and weights of the active substances are printed very clearly on each pill or granule. The object of an easily read inscription, such as this, is to obviate those errors which may so easily occur in handling ordinary granules. The seriousness of such mistakes is a direct consequence of the action of the substances employed. The inscription gives every security both to the invalid and the doctor. The process of manufacturing printed pills and granules makes it possible to obtain absolute homogeneous masses, in which the active principles are uniformly distributed and mathematically dosed. The covering is of a nature which preserves the most changeable medicaments, such as iodide of iron, in all climates. All our various pills and granules are further distinguished by the colour of their covering. The printing is done by means of lampblack, and the colouring matter employed for the coverings is entirely of a vegetable nature.

### EXTRACT FROM PRICE LIST FRENCH PHARMACOPŒIA.

NAMES OF SUBSTANCES	Weights		Prices	NAMES OF SUBSTANCES	Weights		Prices	NAMES OF SUBSTANCES	Weights		Prices
	French Milligram	English Grains			French Centigram	English Grains			French Centigram	English Grains	
Amorphous Aconitina ..	1/2	1/120	8	Acetate of Morphia ..	1	1/6	1 3	Codeina .. .. .	1	1/6	1 8
Crystallised Aconitina ..	1/10	1/600	8	Salicylic Acid .. ..	10	1 2/3	0 7	" .. .. .	2 1/2	5/12	2 0
Arsenate of Soda .. ..	1	1/60	8	Aloes .. .. .	10	1 2/3	0 7	" .. .. .	5	5/8	2 10
Arsenate of Strychnia ..	1/2	1/120	8	"Anderson's" or				Ergotina .. .. .	1	1/8	0 10
Bi-chloride of Hydrar-				"Scotch Pills"			0 6	" .. .. .	5	5/6	0 10
gyrum .. .. .	1	1/60	6	Benzoate of Lithina ..	1	1/6	0 8	" .. .. .	10	1 2/3	0 10
Bi-iodide of Hydrar-				Bromhydrate of Quinine	5	5/6	1 3	" .. .. .	15	2 1/2	0 10
gyrum .. .. .	1	1/60	6	" .. .. .	10	1 2/3	1 8	Extract of Belladonna ..	1	1/6	0 7
Colchicina .. .. .	1/2	1/120	8	" .. .. .	15	2 1/2	2 0	Amorphous Quassina ..	1	1/6	0 8
Acetate of Morphia ..	1	1/60	7	" .. .. .	20	3 1/3	2 6	" .. .. .	2	1/3	0 10
Hydrochlorate of Morphia	1	1/60	8	Bromide of Camphor ..	1	1/6	0 7	Santonina .. .. .	2	1/3	0 7
Phosphoric Acid .. ..	1	1/60	8	" .. .. .	5	5/6	0 8	" .. .. .	5	5/6	0 8
Phosphuret of Zinc ..	1	1/60	8	Caffeina .. .. .	1	1/6	1 3	" .. .. .			
" .. .. .	2	1/30	8	Calomelas .. .. .	1	1/6	0 7	Sulphate of Quinina ..	5	5/6	1 3
" .. .. .	4	1/15	8	" .. .. .	5	5/6	0 7	" .. .. .	10	1 2/3	1 8
Picrotoxina .. .. .	1	1/60	8	Hydrochlorate of Quinine	5	5/6	1 3	" .. .. .	15	2 1/2	2 0
Crystallised Quassina ..	1	1/60	8	" .. .. .	10	1 2/3	1 8	" .. .. .	20	3 1/3	2 5
Extract of Strophanthus	1	1/60	10	" .. .. .	15	2 1/2	2 0	Sulphate of Sparteina ..	2 1/2	5/12	0 10
Sulphate of Strychnia ..	1	1/60	8	" .. .. .							

The preceding list comprises only a very small portion of the Pills and Granules prepared by the Firm of L. Frère. Their complete Catalogue contains the various formulæ of the French Pharmacopœia, also the leading ones of the British Pharmacopœia, as follows:—

BRITISH PHARMACOPŒIA				BRITISH PHARMACOPŒIA			
PRICES				PRICES			
	Per Gross	Per lb.	Per Bottle of 50 pills		Per Gross	Per lb.	Per Bottle of 50 pills
Aloes Barb.	P. B. gr. iv.	1 0	10 0	Ferri Carb.	P. B. or "Female Pill"	1 0	8 0
Aloes and Ferri	P. B.	1 2	10 4	Blue Pill	P. B.	1 0	10 0
Aloes and Myrrh.	P. B.	1 7	12 0	Rhei Co.	P. B. or "Compound Rhubarb"	1 4	12 0
Asafoetida Co.	P. B.	1 4	10 4	Aperiens	or "Antibilious Pill"	1 0	10 0
Calomel Co.	P. B. or "Calomel Pill"	1 2	10 0	Podophyllin	gr. 1/4 6,000 per lb.	1 2	20 0
Colocynth Co.	P. B. or "Colocynth Pill"	1 8	16 0	Acid. Arsenios	gr. 1/60	1 0	10 0
Coloc. and Hyos.	P. B.	1 7	13 0	Atropia	gr. 1/60	1 4	32 0
Ferri Iodid.	P. B. gr. iii.	1 8	16 0	Digitalin	gr. 1/60	1 4	28 0

The above are the principal pills in daily use, and those P. B. are made in strict accordance with the formulæ of the British Pharmacopœia. In proportion with the demand, other kinds will be added to our list, at equally low prices.

NOTE.—Beyond the pills and granules mentioned in our price list, we manufacture to order any kind of pill or granule of which the formula may be confided to us, with whatever inscription the client may select. These special orders cannot be undertaken for a less quantity than two kilogrammes (4 lb. 7 oz.). It is also necessary to give (1) the colour selected for the covering, (2) the inscription written very distinctly. This lettering cannot occupy more than 18 European letters. The spaces between the words count as a letter. For the Hindoo languages the number of letters may vary according to the form of type. The price for manufacturing is 18 francs (14s. 4d.) per kilogramme (2 lb. 3 oz.) of pills covered. Our customers can have the raw materials sent to us by a wholesale drug house, or we will undertake to supply them. It is hardly necessary to add that an absolute discretion is guaranteed. The Granules comprise the doses of active principle for  $\frac{1}{4}$  milligramme, up to one centigramme exclusively. The Pills comprise all the other doses. Each bottle of Granules contains one hundred granules, viz.: 8 doz.  $\frac{1}{4}$ . Each bottle of Pills contains fifty pills, viz.: 4 doz.  $\frac{1}{4}$ .

A Complete Catalogue is forwarded Free on Application.

Armbrecht's Coca Preparations have proved most successful to ward off Influenza, and to remove the weakness and lassitude during convalescence.

## COCA WINE EXTRACT

A SUBSTITUTE FOR COCA WINE.

*Or for making Coca Wine by adding five drops (or more) to Wine.*

A powerful nerve stimulant. Restores the functions of the digestive organs, strengthens the mental and physical powers, assuages thirst, relieves nervous debility. Given with benefit in cases of opium and morphia habit.

The *North Am. Med. Chir. Review*, March, 1880, has the following:—"This Coca produces a general exaltation of the circulatory and nervous systems, imparting increased vigour to the muscles as well as to the intellect, with an indescribable feeling of satisfaction . . . and, what is more singular, this state of exaltation is not followed by any feeling of languor or depression."

In small doses it increases appetite and promotes digestion (five or more drops before each meal). In cases of sleeplessness from exhaustion and fatigue it is invaluable, producing a sound and refreshing sleep without producing the distressing sensation so common after OPIATES, five or more drops at bedtime, and repeated once in an hour's time if necessary.

Retail price 3s. 6d. and 5s. 6d. a Bottle.

## COCA LOZENGES.

These Lozenges are recommended instead of the wine where it is not convenient to take the latter. They contain the extract of the green Coca leaves, and may be used in cases of *loss of voice* before and after singing and public speaking. Harmless if even used to excess.

DIRECTIONS—Two or three Lozenges to be sucked whenever desired.

Retail price, 1s. 6d., 2s. 6d., and 5s.

These two preparations are especially recommended to Travellers, Cyclists, &c.

HANDBILLS, SHOWCARDS & PAMPHLETS FREE ON APPLICATION

Trade Discount 25 per cent.

# Armbrecht, Nelson & Co.

2 DUKE ST., GROSVENOR SQ., LONDON.

### "THE CHEMIST & DRUGGIST" SAYS:

#### ARMBRECHT'S NOVELTIES.

"THE popularity of preparations of coca does not appear to be on the decrease. Messrs. Armbrecht, Nelson & Co., of Duke Street, Grosvenor Square, who have been so energetic in establishing the reputation of their coca wine, are now doing a useful thing by the introduction of a coca wine extract, five drops or more of which added to any wine produces a stimulating tonic of high power. The advantage of this preparation to travellers is apparent, and it carries with it the further recommendation that patients need not give up the use of any particular brand of wine which their physicians have ordered, since a few drops of the extract may be taken in the wine used in the ordinary course of dietary. The extract is put up in neat dropping bottles in a case, to retail at 3s. 6d. The same firm now make coca lozenges, two of which are equal in coca strength to a glass of coca wine. The lozenges are made with a fruit basis, are 'crystallised,' and not disagreeable to taste. They are put in strong boxes to retail at 1s. 6d. The prices are not marked in either case."



*Embracing the Therapeutic Properties of the COCA Plant, blended with the best Madeira.*

### COCA FOR TROUBLESOME THROATS.

Testimony is not wanting from specialists in diseases of the throat, and dramatic and lyric artists, to show that coca has a wonderfully invigorating effect upon the voice. The preparation in most common use is the wine of coca which, in order to yield the characteristic effect, must be made "upon honour." To be of any decided value it must be made from the coca leaves. Very much of the coca wine on the market is merely a solution of cocaine, which cannot be too severely condemned. Hence, those with troublesome throats who desire to use this tonic should be exceedingly careful in purchasing, patronising dealers only of known reliability.

*The VINACOCA is carefully prepared from the best Coca Leaf only. (No addition of Cocaine.)*

Medical men prescribe its use in preference to Quinine or any Bark Wine. It may be used with safety at all times, and for any length of time, without injury to the gastric membrane. It may be taken in place of Liquors and Dessert Wines, which it certainly surpasses in flavour. *It is a direct stimulant of the most active kind*, supporting life in a manner almost miraculous, without disturbance of the vital functions. For the voice, a wineglassful before any ordeal is sufficient. Its effect upon the vocal cords is surprising, and of great value to Public Speakers, Professional and other Singers, and Lecturers.

**Sold in Bottles at 3/6 each, or 40/- per dozen, Retail.**

**THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT STREET, REGENT STREET, LONDON, W.**

### NOTICE TOWLE'S PENNYROYAL AND STEEL PILLS

Mr. E. T. TOWLE, of Dryden Street, Nottingham, Chemist and Druggist, begs to inform the Trade and the Public that he is possessed of the sole right to manufacture and sell Towle's Pennyroyal and Steel Pills, and no other person or firm is intrusted in such business.

All orders to be addressed to Mr. E. T. TOWLE, or to his recognised Agents.

(Signed)

EDWD. T. TOWLE,  
Nottingham.



### CAUTION.

Immediate proceedings will be taken against all person pirating the Title, Name, or Trade Mark.

### SPRAY PRODUCERS

*For quotations of all descriptions see Druggists' Sundries List of undersigned.*

*See Advertisement, page 101.*

### EVANS, SONS & CO. LIVERPOOL.

LONDON:

CANADA:

EVANS, LESCHER & WEBB,  
80 Bartholomew Close.

EVANS AND SONS, LD.  
Montreal, Toronto, and Victoria,  
British Columbia.



SEQUAH'S OIL.



SEQUAH'S PRAIRIE FLOWER,  
ANT  
Sequah's Oil.

Prepared solely by

SEQUAH, LIMITED

ESTABLISHED 1837.

# H. TROMMSDORFF

MANUFACTURING CHEMIST,  
ERFURT, GERMANY.

## TROMMSDORFF'S PURE CHEMICALS,

For Pharmaceutical, Scientific, and Technical Purposes.

FLUID AND OTHER EXTRACTS ACCORDING TO THE  
PHARMACOPŒIAS OF ALL COUNTRIES.

## TROMMSDORFF'S ALKALOIDS AND GLYCOSIDES

Of Greatest Purity and Very Superior Quality.

ACONITINE  
ARBUTINE  
ATROPINE  
CANTHARIDIN  
CHRYSAROBIN  
CODEINE

And  
their  
Salts.

CONIINE  
COTOINE  
DUBOISINE  
ESERINE  
HELLEBOREINE  
HYOSCYAMINE

And  
their  
Salts.

NICOTINE  
PICROTOXINE  
SAPONIN  
SOLANIN  
STROPHANTIN  
VERATRINE

And  
their  
Salts.

AND ALL OTHER ALKALOIDS.

Trommsdorff's **SOZOIODOL** Preparations.

**POTASSIUM — SODIUM — ZINC — MERCURY-SOZOIODOL.**

An odourless substitute for Iodoform; a powerful Antiseptic,  
non-poisonous, free from caustic and irritating effects.

PRICES CURRENT AND SPECIAL QUOTATIONS FOR ALL CHEMICALS SENT FREE  
AND POSTAGE PAID ON APPLICATION.

# EXTRACTUM SENNÆ LEGUMINUM LIQUIDUM;

Or, FLUID EXTRACT OF SENNA PODS (RANKIN & BORLAND'S).

A pleasant, mild, and efficacious Aperient, superior in many respects to Cascara Sagrada. Dose—From  $\frac{1}{2}$  to 1 Fluid Drachm. See Paper by Dr. MACFARLANE in *The Lancet* of Saturday, July 27th, 1889, p. 164.

Prepared by RANKIN & BORLAND, Pharmaceutical Chemists, KILMARNOCK, N.B.

ESTABLISHED HALF A CENTURY.  
G. F. COWARD & CO. (J. W. G. KING, Sole Successors to R. A. COWARD) WHOLESALE DRUGGISTS AND PERFUMERS,  
20 (late 51) LITTLE BRITAIN, LONDON, E.C. PRIZE MEDAL FOR ESSENCE.



PRIZE MEDAL IMPROVED SEIDLITZ POWDERS.

Improved Soda Water and Ginger Beer Powders. Genuine Medicines in Stoppered Bottles. Essence of Jamaica Ginger, Chamomile and Ginger, and Peppermint. Celebrated Jamaica Pomatum in Fancy Pots. Sole Proprietors of the Celebrated Prince of Wales' India Sauce and Curry Powder.

Special Quotations to Export Merchants and Shippers.

Price Lists free on application.



## W. SUTTON & CO.

76 CHISWELL STREET, late 10 Bow Churchyard, LONDON,

SOLE MAKERS OF THE

## ORIGINAL BATEMAN'S DROPS & DAFFY'S ELIXIR.

Proprietary Medicines, Perfumery, Mineral Waters, Lozenges, Druggists' Sundries, and Miscellaneous Articles.

PRICE LIST FREE ON APPLICATION.

## W<sup>M</sup>. BUSH, SON & CO.

YORK STREET, WALWORTH, LONDON, S.E. Established over 40 Years.

Wholesale and Export Chemists. Manufacturers of Concentrated Fruit Essences and Flavours of every description. Colour Extracts for Confectionery. Citrate of Magnesia, &c. Importers of Finest Super Essence of Lemon and all Essential Oils, &c.

PRICE LIST AND SAMPLES ON APPLICATION. TELEGRAPHIC ADDRESS—"BUSHWORTH" LONDON.

ESTABLISHED 1775

## ALFRED WHITE & SONS,

MANUFACTURING CHEMISTS,

Manufacturers of Acids, Æthers, Sp. Æther. Nit., Sp. Ammon. Arom., Liq. Ammon., Soldering Solution, &c., and preparations of Alum, Animal Charcoal, Antimony, Baryta, Bismuth, Strontia, Zinc, &c.

## CASTLE STREET, SAFFRON HILL, E.C.

Works:—WEST DRAYTON, MIDDLESEX.

Telegraphic Address:—"ETHER METHYLATED LONDON."

## ESCHMANN BROS. & WALSH

Inventors and Manufacturers of the

## SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES.

To be had of all Surgical Instrument Makers and Wholesale Houses



## PURE TARTAR EMETIC.

## PURE OXIDE OF ANTIMONY.

Showing 98 per cent. of anhydrous Sb<sub>2</sub>O<sub>3</sub>.

This product is obtained BY A NEW PROCESS, and is offered at VERY ADVANTAGEOUS PRICES.

## POULENC FRÈRES,

92 Rue Vieille du Temple, PARIS.

Grand Prize, Universal Exhibition, Paris, 1889.

## CLINICAL THERMOMETERS.

For quotations of all descriptions see Druggists' Sundries List of undersigned.

See Advertisement, page 101.

## EVANS, SONS & CO. LIVERPOOL.

LONDON:

CANADA:

EVANS, LESCHER & WEBB,

EVANS AND SONS, LD.

60 Bartholomew Close.

Montreal, Toronto, and Victoria,  
British Columbia.

# HERBERT FIRTH

LONDON, E.C., 59 Mark Lane.

## POMADES SUPERSATURATED.

Neroli Pure.  
Geranium de Rose.  
Lavender.  
Spike.  
Thyme.  
Orris, Liquid & Concrete.  
Rosmarin.

SCHMOLLER & BOMPARD  
GRASSE  
S  B

GUARANTEED PURE FRENCH ESSENTIAL OILS.

The SUPERSATURATED POMADES are NOT TO BE  
SURPASSED, neither in QUALITY nor PRICE.

STOCK KEPT IN LONDON.

## PERFUMES IN BULK.

Rose Water.  
Jasmin Water.  
Orange Flower Water.  
Pure Olive Oil.  
Perfumed Oils.

BERGAMOTTE.  
BITTER ORANGE.  
SWEET ORANGE.

**C. RIZUTTO & FIGLIO. G. N. VESCI.**  
**REGGIO CAL.**

ONLY SUPERIOR QUALITY SOLD.

The products of C. RIZUTTO & FIGLIO are only to  
be had through the Sole Agent, PAOLO SERRAO,  
5 Water Lane, and myself.

STOCK KEPT IN LONDON.

LEMON ESSENCE.  
MANDARIN ESSENCE.  
CEDRAT ESSENCE.

**A. PAPPAZOFF, KEZANLIK.**  
**OTTO OF ROSE VIRGIN.**

Ylang-Ylang, Musk, Civet, Am-  
bergris, all Balsams, Patchouli,  
Cinnamon, Cassia, &c., &c.;  
Vetivert, Geranium, Oil of  
Cloves from Bourbon.

**COOSEMANS & SELB, ANTWERP.**

Essence Carraway, Ceder, Santal, Tansy.

**ORRIS ROOT**, in Root & Powder.

*Representative of the Principal Growers.*

DRY FLOWERS FOR PERFUMERY.

HERBS FOR PERFUMERY & DRUGGISTS.

ALL KINDS OF ESSENTIAL OILS.

SAMPLES AND QUOTATIONS SENT.

Ginggrass, Turk. Geranium,  
Citronelle; Fast Soap Colours,  
Confectioners' Colours; all  
Ethers and Fruit Essences,  
Vanilloes, Tonquin Beans.

FOR THE WHOLESALE TRADE ONLY.

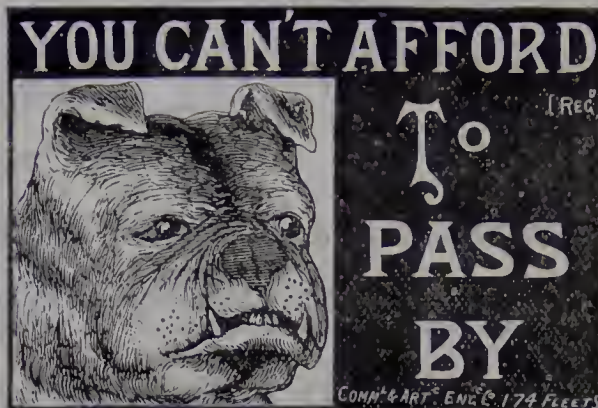
FOR THE WHOLESALE TRADE ONLY.

# STOKES' PATENT CHECK TILL

**Only £3.** (5 per cent. Cash Discount.)

**OVER 1,000 SOLD IN THE LAST 12 MONTHS.**

Stokes' Till leads the way, having a larger sale than any other system on the market.



Occupies only about half the counter space required by other systems.

**SEE OPPOSITE PAGE**

## UNSOLICITED TESTIMONIALS.

Messrs. COLLINS & Co., Colne Road, Barnsley, *July 24th, 1890.*

GENTLEMEN,—We enclose cheque for Till, which we find to answer well in every way, and shall recommend.

Mr. T. A. HUDSON, 8 Houghton Street, Southport, *Dec. 13th, 1890.*

Enclosed I have pleasure in handing you cheque in payment for Cash Till, which I find works admirably, and cash has been exactly right since first I used it.

Mr. DEVLIN, Medical Hall, Thirles, *Oct. 27th, 1890.*

Till to hand to-day, for which I enclose cheque, less your 5 per cent. cash discount. I shall not wait to give it a seven days' trial, as already I can see that it is not needed.

Mr. T. DOYLE, 3 Nun Street, Newcastle-on-Tyne, *Jan. 15th, 1891.*

I enclose cheque in settlement of account for Till, which I find does all you claim for it.

Mr. C. CLOUT, 135 Snargate Street, Dover, *Oct. 31st, 1890.*

Send me two more of your Tills at earliest convenience; the one I had from you is very satisfactory, it being quite a pleasure to balance cash in Till; I could never do so with a book.

Mr. SWINYARD, Grecco, Rommany Road, West Norwood, S.E., *1/12/90.*

GENTLEMEN,—Have enclosed cheque for Till, and am very pleased with it, and believe to be about the best system I have yet seen.

Mr. R. GALLIER, 1 Carfax, Middle Street, Horsham, *June 23rd, 1890.*

Herewith I beg to enclose cheque. I have given the Till a good trial, and I must say I am well pleased with it.

Mr. PHILLIPS, Chemist, Wigan, *June 6th, 1890.*

DEAR SIR,—I like the Patent Till exceedingly; my assistants and apprentices also like it very much. The very act of writing down the amount brings to mind the change required, and we have not had a single case of doubtful change since its use. Please send on another for my branch shop.

Mr. J. BARTON, 3 Dorset Place, Hastings, *July 24th, 1890.*

SIR,—Your Till is the best I have seen, and assists me to keep my books well, which I never could do when using an open till.

Mr. W. BROOKER, 60 Terminus Road, Eastbourne, *August 2nd, 1890.*

GENTLEMEN,—I enclose cheque for Till, and am very pleased to say it has quite come up to my expectations.

Mr. W. H. FOULKES, 72 Northgate Street, Gloucester, *August 26th, 1890.*

Enclosed please find cheque value £2 17s., which, with 5 per cent. cash discount, balances price of Till. I am pleased to say that it answers its purpose admirably.

Mr. W. E. HAINES, 36 High Town, Hereford, *August 25th, 1890.*

I enclose cheque in payment for the Till you sent me on trial, and which I am pleased to say gives every satisfaction.

Mr. J. STOCKFORD, 37 Norland Market, Notting Hill, W., *Sept. 23th, 1890.*

SIR,—Please send one dozen Till papers early as possible. Till works admirably, registers 1,100 to 1,200 transactions on a Saturday without a hitch in any way.

(This is after 12 months' use.)

**SENT ON TRIAL 7 DAYS. FULL PARTICULARS ON APPLICATION.**

**G. R. STOKES & CO., LIM., HANLEY, STAFF.**

READ EVERY LINE—IT WILL PAY YOU.

# CHECK $\vee$ OPEN TILL.

WHAT USE IS A CHECK TILL? Why spend £3 for Stokes' Till when an Open Till is as effective? Theft can be committed just as easily with a Check Till as an Open Till? are queries often asked: and we offer an answer to each in order—1 and 2, Stokes' Check Till has the advantage over Open Tills:—(1) A reliable cash-book; all accounts paid or received are entered in full, and, being posted nightly, prevent the annoyance to customers of sending an already paid account, and also the annoyance of reaching down cash-book each time an account is received. (2) Enables you to keep a correct account of cash, and is thus invaluable in keeping private books. (3) Brings to light excess in giving change, from the fact that unless cash in drawer balances with total of records error has been made, and all deficiencies exposed are "**Net Profits Lost.**" (4) Clears away possibility of disputes with customers. (5) Enables an employer to prove records, and thus test honesty of assistants, &c., &c.

An Open Till informs you the value of contents and "**nothing more,**" and whereas a retailer by the Open Till containing £25 has made (25 per cent. rate) about £6, such errors might have been made during the day that his net profits should be very considerably reduced. Only this week our Mr. Stokes received in an Ironmonger's establishment change for a sovereign when only half a sovereign had been paid. By this error (on above basis) the net profits would only be £5 10s.

In answering the last query, we have to remind you that our Till consists merely of wood and a strip of paper, and cannot, therefore, prevent a person placing in his pocket moneys which should have been deposited therein if he is so inclined. But this can be done with any and every Till, you say. Of course it can! And yet we are continually receiving statements such as "I do not see how your Till prevents pilfering during my absence." No; of course it cannot prevent anything of the kind! But every transaction can be proved by inquiry from purchaser and examination of Till, neither of which can be done in the using of an Open Till.

In fact, Stokes' Till holds exactly the same position as ticket-examiners on the railway: have no Check Till on your counter, and you cannot tell what is taking place; remove the ticket-examiner from the railway, and the authorities would be in the same position. They think it advisable to spend thousands of pounds per year on these examiners.

Your returns require just as much looking after, and a Check Till enables you to do this by employing a customer to make a purchase once a day, week, or month, just as you prefer: examine the record, and your mind is at ease.

**PRICE ONLY £3.**

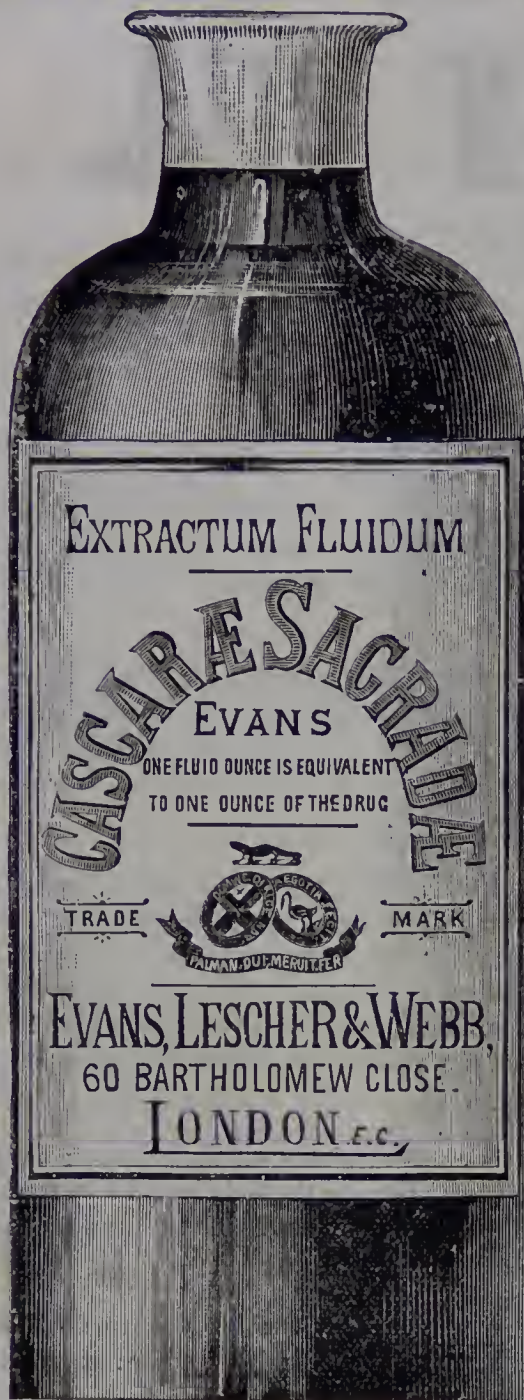
Sent on Trial Seven Days (carriage free if purchased).

PARTICULARS ON APPLICATION.

**G. R. STOKES & CO., LIM.**  
**HANLEY, STAFF.**

# EVANS' FLUID EXTRACTS.

SPECIMEN OF BOTTLE AND FRONT LABEL.



EVANS' FLUID EXTRACTS are now perfected in our laboratories. They are prepared by elaborate processes, with the menstruum most suited to each individual drug; they contain the **whole** of the active medicinal properties. Infusions, decoctions, tinctures, wines, and syrups can be obtained from these fluid extracts, by mixing one minim for every grain of the drug. They are put up in actinic glass bottles, of 5, 10, and 20 fluid ounces, capuled with a large gold front label; a special feature, to assist in dispensing, is the back label, containing full scientific names, botanical origin, description, medical properties, dose, strength, active ingredients, &c.  
*Complete List and Prices on application.*

## EVANS' SALINE.

(EFFERVESCING.)

This preparation is a Mixture, in definite proportions, of Chlorate of Potash, English Tartaric Acid, Bicarbonate of Soda, and a little Cane Sugar. The proportion of these ingredients always remains the same. This and the pleasant excess of acid characterise EVANS' SALINE. A dry mobile powder, dissolving perfectly.

BOTTLES, WITH CHEMISTS' OWN NAME, OR IN BULK.

NEW ARTISTIC DESIGNS FOR WRAPPERS FOR 1891.

## EVANS' OL. RICINI SINE SAPORE.

(TASTELESS.)

This CASTOR OIL is EXPRESSLY AND SOLELY manufactured for us. It is produced by a process which removes the taste, though not the efficacious properties.

## EVANS' COATED PILLS.

Pearl coated, readily soluble, prepared in our own laboratory, with best drugs only, such as are used in all Evans' Pharmaceutical Preparations.

*New Enlarged List for 1891 of several hundred formulæ.*

## EVANS' INSECT POWDER

Imported and freshly ground at their own mills from *Closed Flowers*.

In bulk, or in 6d. and 1s. tins, with perforated rotary top. Hawley's 6d. and 1' Tins, with coloured floral design.

## RECENT MATERIA MEDICA

BY F. HARWOOD LESCHER, F.C.S.

Third Edition, with Addenda up to 1891.

The characteristics of about 300 of the Drugs and Chemicals recently introduced into Medicine, with their Therapeutics, Authorities, Doses, Formulæ. Among them are full information about *Sezoioidol*, *Salix Nigra*, *Pichi*, *Jacaranã*, *Terpin*, *Isodol*, *Jambal*, *Exalgine*, &c., &c.

Price 2/6, post free 2/8, post free abroad 3'.

LONDON:  
**EVANS, LESCHER & WEBB,**  
 60 BARTHOLOMEW CLOSE.

LIVERPOOL:  
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 56 HANOVER STREET. [6]

Canada: EVANS AND SONS (LIMITED), Montreal and Toronto.

# KEENE & ASHWELL,

MANUFACTURING, WHOLESALE, AND EXPORT

## HOMŒOPATHIC CHEMISTS,

Successors to HEADLAND & CO.,

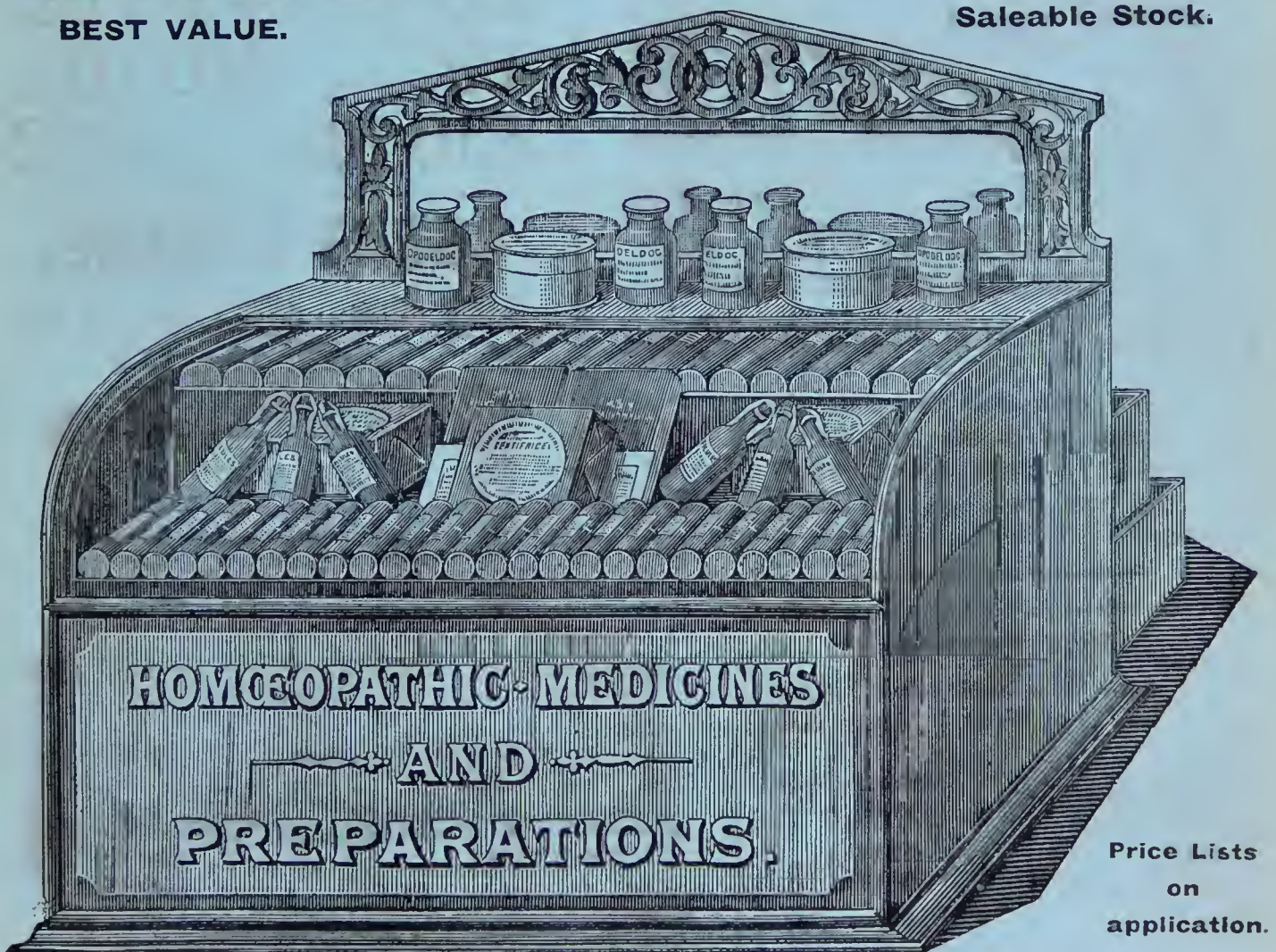
THE FIRST ESTABLISHED HOMŒOPATHIC CHEMISTS IN GREAT BRITAIN.

### THE "COLONIAL" CASE.

£10:10:0 NET. CONTENTS realise at Retail Prices, £22:0:0

BEST VALUE.

Saleable Stock.



Price Lists  
on  
application.

## 74 NEW BOND STREET, LONDON.

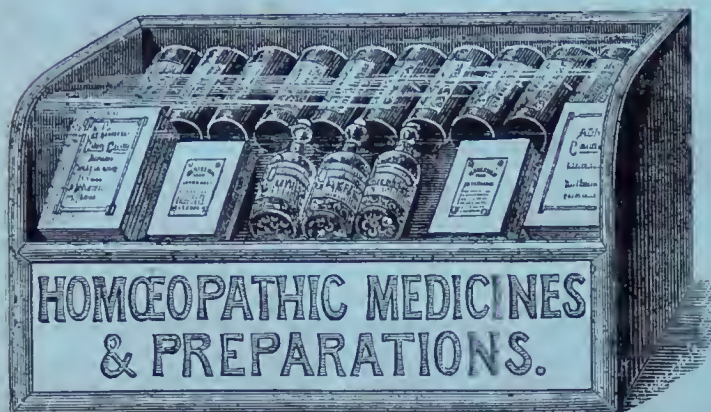
SEE THREE FOLLOWING PAGES AND LAST PAGE OF ALL.

# KEENE & ASHWELL,

LEADING AGENTS' CASES. BENT GLASS, WELL MADE.

KEENE & ASHWELL stock a series of these handsome bent glass Show Cases, of excellent manufacture, which are particularly suited to well furnished Pharmacies.

## THE "50/-" CASE.



CONTENTS realise at Retail Prices, **106/-**

We claim for this Case the advantage of being the BEST, CHEAPEST, AND ONLY BENT GLASS ONE OFFERED AT THIS PRICE.

Cases of the same series as illustrated above, at—

£4 4s. Contents realise at Retail Prices, £9

£5 10s. „ £11 11s.

£10 „ £18 11s.

Illustrated Lists on Application.

Below we give Illustration and Particulars of a very Handsome Show Case, with CARVED BACK and BEVELLED MIRROR.

Cases of the same Series at—

£3 CONTENTS REALISE AT RETAIL PRICES, £6 6s.

£5 „ £10 10s.

£10 10s. „ £22

## AGENT'S CASE.

Contents realise at Retail Prices £12 7s.

**£6  
NET.**



*74 New Bond Street,*

**LONDON**

SEE PRECEDING AND TWO FOLLOWING PAGES, & LAST PAGE OF ALL.

# KEENE & ASHWELL,

**NOW READY. PRICE, 3/6. NEW EDITION (The Fourth).**

In Cloth, pp. 203. Post Free to any part of the World on receipt of Remittance.

## A COMPANION <sup>TO THE</sup> BRITISH & AMERICAN HOMŒOPATHIC PHARMACOPŒIAS.

This is a concise work in **Dictionary** form, giving full and complete directions for the **Manufacture** and **Dispensing** of **Homœopathic** Medicines and Prescriptions, and should be in the hands of **every Chemist**. It will often enable Chemists to dispense Medicines or make a sale where otherwise a customer might be turned away.

**MEDICINES IN BULK.**—It will be found very profitable to stock some of the chief Homœopathic Remedies in Bulk, for the Dispensing of Prescriptions, etc.

**KEENE & ASHWELL** issue a separate Price List for this Department, sent post free on application.

Illustration of our 1/- (Retail) bottle of CAMPHOR PILULES.



NATURAL SIZE.

### PRICE LIST

OF

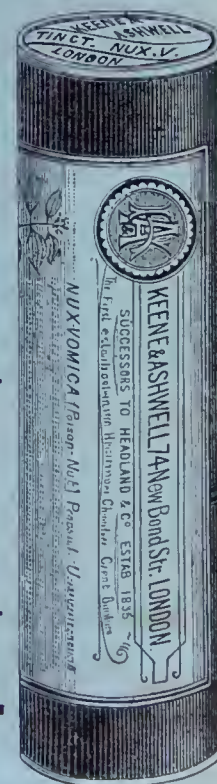
### HOMŒOPATHIC MEDICINES,

READY PUT UP FOR SALE.

1/- Retail	{	<b>PILULES</b>	{	<b>3/9</b>
		<b>TINCTURES</b>		per
		<b>GLOBULES</b>		Dozen.
6d. Retail		<b>DITTO</b>	<b>2/3</b>	per Doz.
1/- Retail	{	<b>HOMŒ. CAMPHOR</b>	{	<b>4/6</b>
		<b>RUBINI'S</b>		per
		<b>EXTERNAL TINCTURES</b>		Dozen.
6d. Retail		<b>DITTO</b>	<b>2/6</b>	per Doz.

**CAMPHOR PILULES, 1/-**  
**3/9** per Dozen. **3/9**  
 AS ILLUSTRATED.

Illustration of our 1/- (Retail) bottle of PILULES or TINCTURES.



NATURAL SIZE.

*74 New Bond Street,*

# LONDON

# KEENE & ASHWELL,

## HOMŒOPATHIC CHEMISTS.

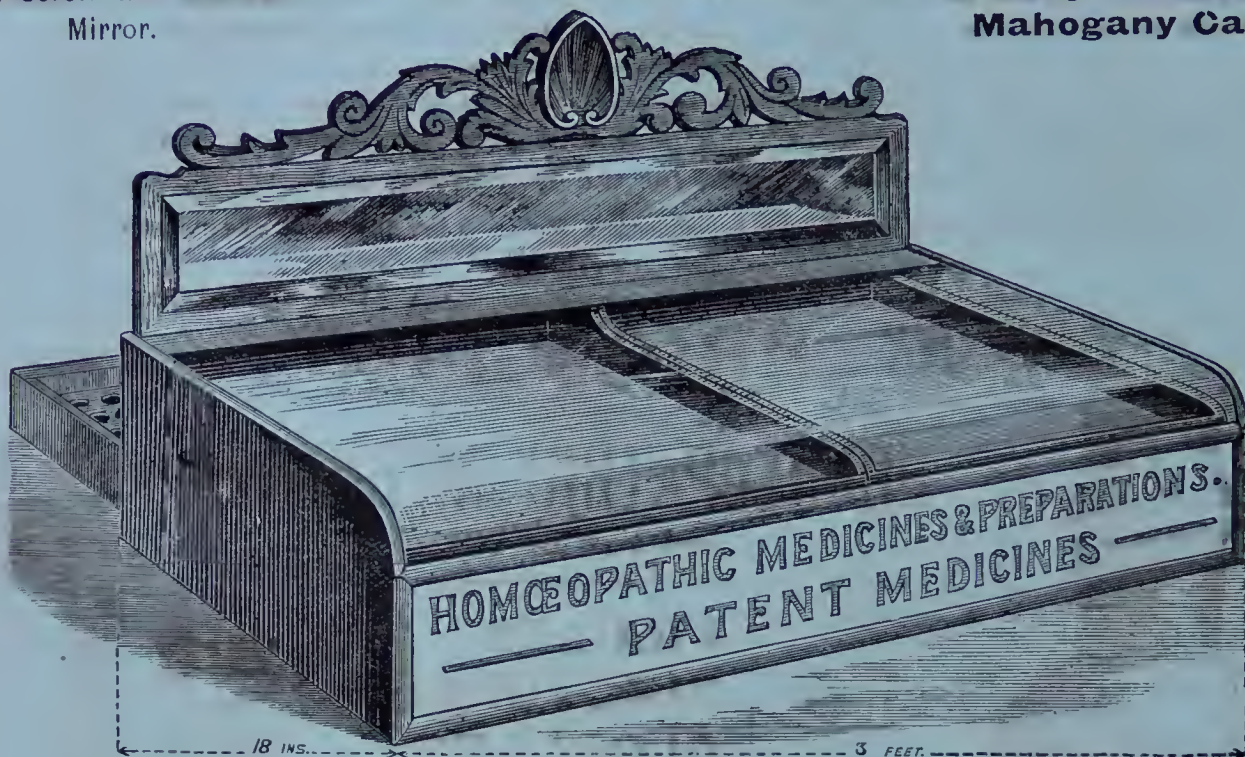
### THE "COMBINATION" CASE.

**£12:0:0 NET.** CONTENTS realise at Retail Price, **£18:11:0**

Carved Scroll and Bevelled  
Mirror.

Price Lists on application.

A very handsome  
Mahogany Case.



(Dimensions : 3 feet long, 18 inches wide, 8 inches high, 18 inches to top of mirror.)

**SPECIALLY RECOMMENDED WHEN FITTING OR RE-FITTING A PHARMACY.**

The following unsolicited Testimonial is evidence of the satisfaction given to a purchaser of one of these Cases :—

Messrs. Keene & Ashwell.

Hoole Pharmacy, Chester,  
June 6th, 1890.

Gentlemen,—Case to hand this afternoon. It is a very handsome Case, and is just what I wanted to complete my counter. Packing Case returned to-day.

Yours truly,  
D. DICKINSON.

*74 New Bond Street,*

# LONDON



**BUSINESS WRINKLES.**

## • Printing. •

When anyone wants Printing, he wants it, as the Texan does his revolver, at once—and sure. Tardy delivery means, it may be, an expensive delay. The importance of promptness in execution and delivery of work cannot be over-estimated.

**BOWERS BROTHERS,**  
89, BLACKFRIARS ROAD, S.E.

## PROMPTNESS I



"WHAT'S THAT? MY JOB NOT DONE! HOW FOOLISH I WAS TO GIVE MY PRINTING TO YOU. I OUGHT TO HAVE TAKEN IT TO BOWERS BROTHERS, AND HAD IT TO TIME. I'LL DO SO HEREAFTER."

## Our Facilities.

NOVELTIES IN PAPER.  
LATEST DESIGNS IN TYPE.  
FAST PRESSES  
NEWEST SHADES IN INKS.  
ORIGINAL IDEAS.  
LONG EXPERIENCE.  
QUICK DELIVERY.  
FAIR PRICES.  
QUAINT ILLUSTRATIONS.

## DON'T YOU

PLACE YOUR ORDERS FOR PRINTING WITH THOSE WHO CANNOT GUARANTEE THE DELIVERY OF WORK TO TIME, OR TURN OUT A SATISFACTORY JOB, BUT SEND TO US. WE CAN DO IT.

Before placing  
Orders for  
Insets or any  
Description  
Of Work,  
Send to  
Bowers Brothers  
for  
Estimates.

## OUR PRICES

Chemists' Counter Bills, second quality,	7½ × 5	... 10,000	12/-
Chemists' Counter Bills, good quality,	7½ × 5	... 10,000	14/-
Chemists' Counter Bills, second quality,	9 × 5½	... 10,000	17/-
Chemists' Counter Bills, good quality,	9 × 5½	... 10,000	21/6
Chemists' Pill Labels from	...	1/3 per 1,000.	
Chemists' Slip Labels from	...	1/- per 1,000.	

ALL OTHER WORK AT EQUALLY FAIR RATES.

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**Large Orders at  
very Low Rates.**

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### THE "BB" FILE.

CAPACITY, 1,000 LETTERS.

*Papers may be removed and returned to this File without trouble or mutilation.*

It is upright, with full tight back, convenient for suitable titles and shelf arrangement; neatly, handsomely, and strongly made, unique in appearance, and has much greater capacity than any other box file in the market.

Octavo, 6 × 11½ in., 22/6 per doz. 2/- each  
Quarto, 9½ × 11½ in., 26/- " 2/6 "  
Foolscap, 9 × 15 in., 35/- " 3/6 "

## BUSINESS CARDS.

Letterpress, 4½ × 3½ in.	500	1,000	2,000
" 3½ × 2½ in.	9/-	14/6	26/6
	6/6	12/-	21/6

## MEMORANDUMS.

Letterpress	...	1,000	3,000	5,000
		5/6	14/6	20/-

## BILLHEADS.

Letterpress, 8 in. × 5 in.	1,000	3,000	5,000
	6/-	16/-	22/-

## PRESCRIPTION ENVELOPES.

Letterpress	...	1,000	2,000
		7/6	14/-

## BUSINESS ENVELOPES.

Printed on Flap, from 4/- per Thousand.

## WHITE DEMY.

Per Ream ... 4/6 and 5/6

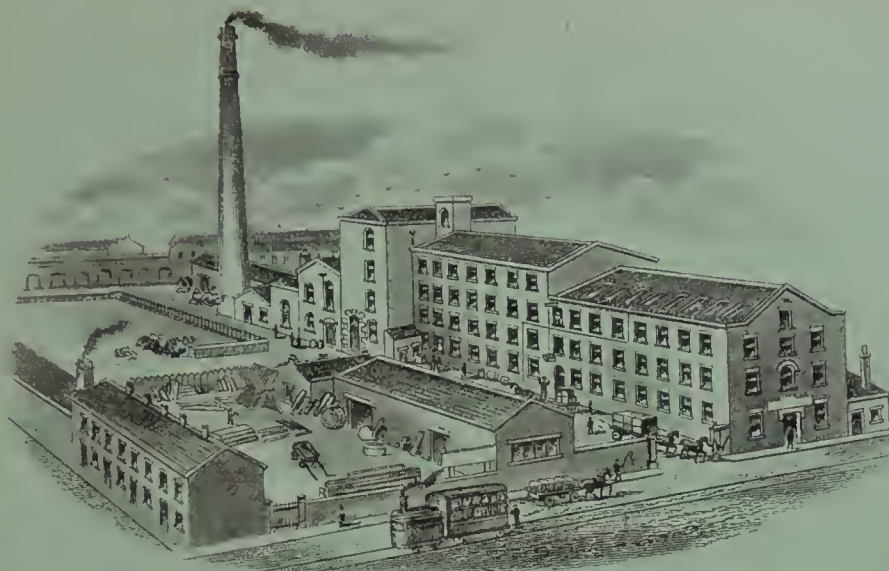
## We Beg to Assure

Both Home and Colonial Friends that our best efforts are always at their service, and we respectfully invite correspondence. Any orders sent direct to us or through London houses will have the most prompt and careful attention. As it is impossible to give a complete Price List in this issue, but particulars and samples will be sent on receipt of postcard, or as time may be of vital importance, full London value will be given for any remittances and orders that may be sent us.

**TERMS**—Cash on receipt of Invoice.

# WILLIAM GEDDES,

Manufacturing  
Chemist,



Wholesale  
Druggist,

## BROADWAY CHEMICAL WORKS, OLDHAM.

TRADE BRAND

WERNETH.

### Manufacturer of Pharmaceutical Preparations.

#### Werneth Malt Extract

From Malted Barley, prepared in Vacuo.

#### Werneth Tonic Malt Extract

Having the addition of an agreeable bitter to remove the sweet sickly character; also combined with

HYPOPHOSPHITE OF LIME,  
IODIDE OF IRON, OR  
OTHER CHEMICALS.

#### Werneth Fluid Malt Extract

#### WERNETH MALT EXTRACT,

Combined with Cod Liver Oil.  
Highly approved.

#### Werneth Malted Chemical Food,

Malt Extract, taking the place of Sugar  
in Parrish's formula.

◇ WERNETH ◇

# MALTED \* MARMALADE,

(Patent 15981, October 8th, 1890.)

A combination of Malt Extract with Orange Marmalade, removing the difficulty of administering the Viscid Extract as a medicine, and making it part of the furnishing of the Breakfast and Tea table.

Put up in Glass Jars at 6d. (4/6), 1/- (8/-), and 1/9 (15/- per dozen), and packed in boxes containing one dozen each of the 6d. and 1/- size, and 1/2 doz at 1/9.

# MALTED INFANT FOOD

In Tins at 6d. (4/-), and 1/- (7 - per dozen), or in bulk.

Concentrated	Decoctions	Syrup: Hypophosph: Co.
„	Infusions	„ Ferri Phosph: Co.

## FLUID EXTRACTS.

# WERNETH \* EXTRACT \* OF \* HERBS

6d. Bottles, 3/3 dozen.

Has had an immense sale during the Summer, and sold as a Summer or Winter beverage.

Werneth Ginger Extract, for making Temperance Ginger Wine.

**TERROLIN.**—A Hydrocarbon Jelly, now well known to the trade, with a large increasing demand, as the best article offered.

# WILLIAM GEDDES,

Broadway Chemical Works, OLDHAM.

DOCTORS RECOMMEND THEM.

HEALTH INSURED BY REAST'S PATENT

# INVIGORATOR CORSETS

MADE  
To Order  
IN  
ANY SHAPE.

SPECIALITE,  
LONG  
WAIST  
12/9

Dr. M. O. B. NEVILLE,  
L.R.C.P., Edin. Medical  
Officer of Health, says,  
Nov. 1st, '90 :—

"From a scientific point of view, I am of opinion that your Corset is the only one that gives support without unduly compressing important organs. Its elasticity, in a great measure, prevents this. I am satisfied, by its support of back and shoulders, that it is a material help to expanding the chest."



Dr. P. H. MORIARTY,  
L.R.C.P., says, Nov. 4,  
'90 :—

"Your Invigorator Corset has afforded my patient great comfort. Having regard to the admirable manner in which the Corset has been constructed, and considering how nicely adapted the various parts of the Corsets are to the requirements of the shoulders, chest, and spine, its health-giving powers are assured."

Dr. J. SIMPSON, M.D., says, 17th Sept., '90 :—

"Your Corsets are a decided advance in the right direction."

Dr. DUNN, L.R.C.P., says, 12th Sept., '90 :—

"It is admirably suited for the prevention of round shoulders."

Dr. O'KELLY, L.R.C.P., Edin., Sept. '90, says :—

"It is the best invention of the kind for improving the carriage and appearance of the figure without the injurious effects of the ordinary Corset even when tight laced."

## PRICES.

Child's under 5 years, 3/4; Boys' and Girls' over 5 years, 4/6; Maids', 5/6.

Ladies', 4/11, 6/6, 8/6, 12/9, 18/6, 22/6, 63/-.

Pine Wool—Child's, 5/6; Boys' and Girls', 7/6; Maids', 8/6; Ladies' 12/9

*Trade Prices on application to Patentee 15, Claremont Hastings.*

May be obtained from all Wholesale Houses, or from the  
Patentee 15, Claremont, Hastings

HEALTH INSURED BY REAST'S PATENT

# INVIGORATOR CORSET

THE COUNTESS OF SUFFOLK, Aug. 26th, '90, says:—

"I think them such very good stays, and those you sent for my daughter answered admirably."

Dr McMUNN, L.R.C.S., Sept. 25th, '90, says:—

"I approve of the style and make, they are capital for round shoulders, and are most comfortable. I shall strongly recommend them."

Dr. W. A. CLUGSTON, M.D., Edin, Sept. 30th, '90:—

"They are admirable and comfortable corsets I recommend them."

Dr. A. M. ENGLISH, L.R.C.P., says, Sept. 9th, '90:—

"I approve of it. It seems so easy to the figure."

Dr. CROLY, L.R.C.P., says, 15th Sept., '90:—

"I feel satisfied that it will act beneficially as a natural support."

THE QUEEN,

Jan. 25th, 1890.

"It is most comfortable and invigorating, beautifully cut and finished."

SALON, May, 1890.

"It is the Queen of Corsets, they are delightfully comfortable and give great relief to the back."



Mrs WELDON'S  
JOURNAL, July,  
says:—

"Undoubtedly supplies a long felt want for ensuring an upright form and graceful carriage, combines elegance of form with comfort. It renders a corset what it should be, comfort and support to the wearer, strengthening the spine, expanding the chest, and giving necessary support without tight lacing or undue pressure."

"HEALTH," Edited by Dr. ANDREW WILSON, F.R.S.E., Lecturer on Health under the Combe Trust, Lecturer on Physiology at the Edinburgh University, says:—

"We recommend Reast's Invigorator Corsets on account of their thoroughly hygienic nature. It is made especially to correct round shoulders and stooping."

DR. GAMBIER says:—

Your "Invigorator Corset," in my opinion, possesses merits far beyond all others. The chief of these are:—1. It gives support without impeding the perfect freedom in the movements of the body. 2. It is so elastic, that respiration and circulation is not interfered with by constriction round the waist. 3. The chest is expanded, and the body kept erect by the cross straps at the back.

THOMAS GAMBIER, M.D.,

Physician to Friedenfel's Hospital for Consumption  
St. Leonards-on-Sea

July 8th, 1890.

—Any Shape can be made with this Patent attached.—

NOTE Two Strips of Whalebone on either side running the full length of the spine gives a necessary and comfortable support.

May be obtained from all Wholesale Houses or from the



# DR. PAUL'S

HIGH-CLASS

## MANICURE SPECIALITIES

Certified as innocuous by eminent English and American Chemists.

### CERALINE.

RETAIL.

For tinting Finger Tips, Face and Lips 2/6

DIRECTIONS.—For Lips and Face: apply very small quantity with finger tip, and tone down to required shade with piece of chamois. If carefully applied the effect is most natural and detection impossible. For Finger Tips: apply a small quantity with brush sold for the purpose up to first joint, then polish nails with "Poudre Lustrale." Wash off with any pure soap and tepid water in the morning.

### POUDRE LUSTRALE.

Gives a brilliant shell-like transparency to the Nails - - - - - 2/6

DIRECTIONS.—Spread the Powder on a large polisher, and a few rapid strokes will produce a brilliant polish on the Nails. Now apply the Ceraline as directed and re-polish. The hands should then be thoroughly washed with any pure soap and tepid water. A very slight friction with the palm of the hand completes effect.

### CREME CAMELIA.

Restores Rough and Chapped Skins to their original softness - - - - - 2/6

DIRECTIONS.—The Crème should be rubbed into the skin (face and hands) at bed-time. Wash off with any pure soap and tepid water in the morning.

### ORANGE WOOD STICKS.

A valuable novelty introduced in Dr. Paul's system of Manicure to apply the "Cleansing Fluid" under the free margin of Nails, and thus avoid the danger of scratching with steel instruments - - - - - per bundle 1/0

### NAIL OLEATE.

RETAIL.

Preserves and gives a brilliant polish to the Nails, and prevents Agnails, &c. - 1/6

DIRECTIONS.—Anoint the nail and its surroundings, and use a polisher briskly for a few seconds. If a little of the "Poudre Lustrale" is now used with the polisher the brilliancy is much enhanced.

### CLEANSING FLUID.

Instantly removes all stains from the surface and underneath the Nails - 2/6

DIRECTIONS.—Immerse the orange wood stick supplied in the fluid and use as an ordinary nail cleaner, also apply to the nail and its base if necessary, then wash the hands as usual.

### FACE AND HANDS LOTION.

Softens the Skin and removes all discoloration - - - - - 4/6

DIRECTIONS.—Apply with small sponge night and morning, or after exposure to the sun.

### EMERY BOARDS.

For bevelling the rough edges of the Nails after use of the file - per box 1/0

### MANICURE CASES.

Fitted complete, Retail, 10/0 to 10 guineas.

# CAUTION!

Dr. Paul's Specialities can be obtained at all first-class Perfumers and Chemists, but many imitations are offered at inferior Stores.

# Why CHEMISTS and DRUGGISTS SHOULD BUY DR. PAUL'S MANICURE SPECIALITIES.

1. Because they give a splendid profit and sell rapidly.
2. Because there is an enormous and increasing demand for them.
3. Because they are extensively advertised in all the leading papers and journals.
4. Because of their pure, lasting and unadulterated qualities.
5. Because they are sold everywhere.
6. Because they are handled by all the leading Chemists and Perfumers.
7. Because they are endorsed by all purchasers.
8. Because they can be guaranteed to do what is represented.
9. Because they are the very best obtainable.

.....  
*Chemists and Druggists in ordering should specify DR. PAUL'S MANICURE ARTICLES  
and accept no others.*  
.....

**WHOLESALE AGENTS**—Messrs. OSBORNE, CARRETT & CO., Frith Street, Soho, London; and Birmingham.

## FOREIGN AGENTS.

*Paris*—Mr. C. H. FAY, 12, Rue de la Paix.  
*Nice*—Mr. F. MARCH.  
*Monte-Carlo*—Mr. C. PILLET, Galerie Charles III.  
*Madrid*—Messrs. Gonzalez & Co., 8 and 10, Sevilla.  
*Bruxelles*—Mr. VANDENPUT, 80, Rue du Marché.  
*Vienna*—Mr. A. LINNE, 7, Kettenbrückengasse.  
*Berlin*—Messrs. RAYMOND & CIE.

*Wiesbaden*—Messrs. JACOB & EISHBURGER.  
*Rome*—SR. R. CHIECO, 46 & 47, Via della Maddalena.  
*Naples*—Messrs. F. GENEVOIS & FILS.  
*St. Petersburg*—Mr. F. M. SCHMIDT, 58, Kazanskaja.  
*Sydney*—Messrs. A. JOSEPH & Co, 250, P. H. Street.  
*Melbourne*—Messrs. FELTON, GRIMWADE & Co.  
*Calcutta*—Messrs. BATHGATE & Co.

.....  

## PRESS REPORTS.

*Vide* This Paper, November 1st, 1890, page 628; also "Truth," "Daily Telegraph," "British and Colonial Druggist,"  
"New York Herald," "American Register," and others too numerous to mention.

.....

BURROUGHS, WELLOOME &amp; CO

LITTLE'S

No.



# COMPRESSED PASTILLES

## SLOWLY SOLUBLE,

## SOLUBLE and DISINTEGRATING.

Supplied at the subjoined Prices, which will compare favourably with any in the Market for Pure Products.

### NET CASH PRICES.

Ammon Brom.	....	....	10 gr.	3/- per lb.	Potass Chlor.	....	....	5 gr.	1/4 per lb.
Ammon Chlor.	....	....	3 "	3/- "	Potass Iodide	....	....	5 "	14/- "
Antifebrin	....	....	2 "	5/- "	Quinine	....	....	2 "	1/8 per oz.
Antipyrin	....	....	5 "	3/- per oz.	Quinine	....	....	5 "	1/8 "
Bismuth Subnit	....	....	5 "	10/- per lb.	Salol...	....	....	5 "	20/- per lb.
Bismuth Subnit	....	....	10 "	10/- "	Salicin	....	....	5 "	-/8 per oz.
Chloralamid	....	....	5 "	1/6 per oz.	Soda Bicarb.	....	....	5 "	2/- "
Ipecac Powd.	....	....	5 "	1/- "	Soda Mint	....	....	—	3/3 "
Ipecac and Opium	....	....	5 "	6/- per lb.	Soda Salicylate Schering	....	3 "	10/- "	
Pepsine B.P.	....	....	5 "	14/- "	Soda Salicylate Schering	....	5 "	10/- "	
Phenacetin	....	....	5 "	3/- per oz.	Sulphonol	....	....	5 "	1/8 "
Potass Bicarb.	....	....	5 "	2/- per lb.	Sulphur Compound	....	....	6 "	3/- per lb.
Potass Brom.	....	....	5 "	3/- "	Urethane	....	....	5 "	2/- per oz.
Potass Chlor. and Borax	....	....	5 "	1/4 "	Voice (Potass Chlor; Borax & Cocaine)	5 "	5/-	per lb.	

Packages extra. In ordering specify LEO & Co.

LEO & Co., 8, Creechurch Lane, London, E.C.



# COMPRESSED PASTILLES

## SLOWLY SOLUBLE, SOLUBLE and DISINTEGRATING.

Supplied at the subjoined Prices, which will compare favourably with any in the Market for Pure Products.

### NET CASH PRICES.

Ammon Brom. ....	10 gr.	3/- per lb.	Potass Chlor. ....	5 gr.	1/4 per lb.
Ammon Chlor. ....	3 "	3/- "	Potass Iodide ....	5 "	14/- "
Antifebrin ....	2 "	5/- "	Quinine ....	2 "	1/8 per oz.
Antipyrin ....	5 "	3/- per oz.	Quinine ....	5 "	1/8 "
Bismuth Subnit ....	5 "	10/- per lb.	Salol.... ....	5 "	20/- per lb.
Bismuth Subnit ....	10 "	10/- "	Salicin ....	5 "	-/8 per oz.
Chloralamid ....	5 "	1/6 per oz.	Soda Bicarb. ....	5 "	2/- "
Ipecac Powd. ....	5 "	1/- "	Soda Mint ....	—	3/3 "
Ipecac and Opium ....	5 "	6/- per lb.	Soda Salicylate Schering ....	3 "	10/- "
Pepsine B.P. ....	5 "	14/- "	Soda Salicylate Schering ....	5 "	10/- "
Phenacetin.... ....	5 "	3/- per oz.	Sulphonol ....	5 "	1/8 "
Potass Bicarb. ....	5 "	2/- per lb.	Sulphur Compound ....	6 "	3/- per lb.
Potass Brom. ....	5 "	3/- "	Urethane ....	5 "	2/- per oz.
Potass Chlor. and Borax ....	5 "	1/4 "	Voice (Potass Chlor; Borax & Cocaine)	5 "	5/- per lb.

Packages extra.

In ordering specify LEO & Co.

LEO & Co., 8, Creechurch Lane, London, E.C.

The reputation of Gelatine-Coated Pills has been created by our manufacture.

# "McK. & R." PILLS.

THE  
CAPSULE



Trade Mark, Registered.

ORIGINATED 1870 BY

MCKESSON & ROBBINS,

Manufacturing Chemists, New York. Established 1833.

The profession and all dispensing chemists are supplied by the principal wholesale houses in the trade throughout Great Britain and Ireland; and are respectfully cautioned against many imitations.

## PECULIAR MERITS OF THE "McK. & R." PILLS.

The covering *entirely disguises the taste*, and, because of the ovoid form, they are *easily taken by persons who cannot swallow round pills*—even when coated with sugar.

The Pills are *perfectly sealed* by a complete envelope of *pure transparent gelatine*—applied while the mass is soft—*protecting all delicate substances* from the oxidizing influences of the atmosphere, and *keeping the pills in a perfectly soluble condition*. The capsule *dissolves very quickly* when placed in the mouth.

They are *not* subjected to that injurious application of heat, which so greatly impairs the ordinary coated pills.

We give this department our personal attention and carefully superintend every detail; as a consequence the uniform drugs and their exact subdivision in the "McK. & R. Pills" can be relied upon with confidence by the Profession, and these advantages can always be secured regardless of the locality in which the Pills may be dispensed.

## MCK. & R. FORMULA LIST OF THE BRITISH PHARMACOPŒIA AND OTHER STANDARD AUTHORITIES.

Put up in Bottles Containing 25 or 100 Pills Each.

<p><b>A</b></p> <p>Aconitine Crystals, Duquesnel, 1-500 gr.</p> <p>Dr. A. Dumas considers aconitine an energetic, and very efficacious remedy, especially in congestive facial neuralgia. He lays great stress on the necessity for a reliable preparation, and we would, therefore, caution the physician to specify "McK. &amp; R."</p>	<p>Aloes, Barb., B. P., { Aloes Barb. Pulv., 1-2 gr. Rose Conf., 1-4 gr. } { Saponia Pulv., 1-4 gr. Ol. Carul. }</p> <p>Aloes, Dilute (Dr. Hall Dinner Pill), { Aloes Barb., Pulv., Ext. Glycerh., } { Saponia Pulv., Theriac, aa, 1 gr. }</p> <p>Aloes, Socotrine, B. P., { Aloes Soc. Pulv., 1-2 gr. Rose Conf., 1-4 gr. } { Saponia Pulv., 1-4 gr. Ol. Myrtillac. }</p>	<p>Aloes and Asafoetida, B. P., { Aloes Soc. Pulv., Saponia Pulv., } { Asafoetida, Rose Conf., aa 1-4 gr. }</p> <p>Aloes and Iron, B. P., { Aloes Barb. Pulv., 1 gr. Cinnamon, Co Pulv., 1-2 gr. } { Ferri Sulph., 3-4 gr. Rose Conf. 1-4 gr. }</p> <p>Aloes and Myrrh, B. P., { Aloes Soc., 1 gr. Myrrh, 1-2 gr. } { Crocus, 1-4 gr. Rose Conf., 1-4 gr. }</p>
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# "McK. & R." CAPS: PILLS

According to Formulas of the British Pharmacopœia and other Standard Authorities.

**Aloes and Myrrh, B. P.,** 5 grs.  
{ Aloes Soc., 1-2 gr. Myrrh, 5-6 gr. }  
{ Crocus, 1-2 gr. Rose Conf., 1-15 gr. }  
**Aloes and Nux Vomica.**  
{ Pulv. Aloes Soc., 1-2 gr. Ext. Nux Vom., 1-2 gr. }

**Aloin.**  
These pills of aloin (the active principle of aloes) were first introduced by us to the medical profession several years ago, and rapidly became a favorite, since they represented the aperient properties of aloes without the griping tendencies common to that drug. In a recent article (*Lancet*, Jan. 1, 1887) on the management of Simple Constipation, Sir Andrew Clark says: "If the use of drugs is unavoidable, try the aloin pill. Take one half an hour before the last meal of the day, or just so much of one as will suffice to move the bowels in a natural way the next day after breakfast. If it should produce a very copious motion, or several small motions, the pill is not acting right; only a fourth or even less, should be taken for a dose. When the right dose has been found it may be taken daily, or on alternate days, until the habit of daily defecation is established. Dr. Clark uses aloin in combination with nux vomica, iron, myrrh, etc. (See Aloin, or Aperient No. 4).

**Aloin Compound.**  
{ Aloin, 1-5 gr. Strychnine, 1-60 gr. }  
{ Ext. Belladonna, 1-4 gr. }  
{ Podophyllin, 1-3 gr. }

**Aloin and Strychnine.**  
A tonic laxative granule, prescribed for chronic constipation where a painless peristaltic action is desired. Especially useful in the treatment of the aged. Since introducing this formula to the profession, and adding the granule to our list, our sales have been exceedingly large. We have received numerous letters and reports from physicians, speaking in the highest terms of the results of their administration, and thanking us for introducing this granule to their notice. Always specify "McK. & R."

**Aloin, Strychnine and Belladonna.**  
{ Aloin, 1-5 gr. Strychnine, 1-60 gr. }  
{ Ext. Belladonna, 1-4 gr. }

A tonic laxative granule, prescribed where a painless peristaltic action is required.

**Aloin or Aperient, No. 1.**  
{ Aloin, 1-5 gr. Strychnine, 1-60 gr. }  
{ Ext. Belladonna, 1-4 gr. }

**Aloin or Aperient, No. 2.**  
{ Aloin, 1-5 gr. Strychnine, 1-60 gr. }  
{ Ext. Belladonna, 1-4 gr. }

**Aloin or Aperient, No. 3.**  
{ Aloin, 1-5 gr. Strychnine, 1-60 gr. }  
{ Ext. Belladonna, 1-4 gr. }

**Capsicum and Hyoscyamus (Anti-Grave).**  
{ Capsici Pulv., 1-15 gr. }  
{ Ext. Hyoscyami, 1-2 gr. }

This "Anti-Grave" pill is useful in the treatment of dipomania as a substitute for stimulants.

**Cascara Extract.**  
This extract is prepared in our own laboratory, and can be relied upon. Useful in habitual constipation. Dr. Prosser James, in *Medical Press*, London, April 25, 1883, speaks of its use in the case of a gentleman with laryngeal catarrh. He says, "He had hemorrhoids, and the intestinal canal was so sensitive that very small doses of any aperient produced extreme distress. It acted once, producing a colored stool of soft consistence without griping." Dr. M. M. Tehelzoff studied the influence of this drug parallel with that of rhubarb, places Cascara, Sagrada in the highest place after rhubarb. In general he considers it a useful remedy for dyspepsia, jaundice and similar affections of the digestive organs. Several ob-servers have testified to the value of Cascara Sagrada for certain forms of rheumatism. For these cases it has been used successfully, both alone and with salicylic acid.

**Cathartic Compound, U. S. P., (Purgative.)**  
{ Ext. Jalape Pulv., 1-2 gr. }  
{ Hyd. Subchlor., aa, 1 gr. Gambogiae Pulv., 1-2 gr. }

**Codeine.**  
{ Codeine, 1-2 gr. }

**Colocynth Comp., B. P.,** 4 grs.  
{ Coloc. Pulv., 1-5 gr. Potass Sulph., 1-5 gr. }

**Colocynth Comp., B. P.,** 5 grs.  
{ Coloc. Pulv., 1-5 gr. Ol. Caryoph., 1-5 gr. }

**Colocynth Comp. and Blue Mass,** 5 grs.  
{ Coloc. Pulv., 1-5 gr. Potass Sulph., 1-5 gr. }

**Colocynth Comp. and Calomel,** 5 grs.  
{ Coloc. Pulv., 1-5 gr. Calomel, 1-5 gr. }

**Colocynth and Hyoscyamus, B. P.,** 5 grs.  
{ Coloc. Pulv., 1-5 gr. Ext. Hyoscy., 1-2 gr. }

**Colocynth Comp. Ext., B. P.,** 5 grs.  
{ Coloc. Pulv., 1-5 gr. Ext. Aloes Soc., 1-5 gr. }

**Conium Comp., B. P.,** 5 grs.  
{ Conii Pulv., 1-5 gr. }

**Copaiba Compound.**  
{ Copaiba Pulv., 1-5 gr. }

**Mercury, Proto-Iodide, 1-20, 1-16, 1-8 gr.**  
By a method of our own, we now obtain this salt absolutely pure, free from the red iodide or metallic mercury, and in a perfectly impalpable powder. The irritation of the stomach so frequently caused by the ordinary salt is no doubt due to impurity, such as red iodide, and is not observed in the use of the "McK. & R." proto-iodide. Scrofula and scrofulous syphilis. Should never be given at the same time with iodide of potassium, which converts it into bin-iodide.

**Mercury, Proto Iodide,** 1-4 gr.  
Absolutely pure Proto-Iodide of Mercury should be a bright yellow impalpable powder, entirely free from globules of mercury or particles of bin-iodide.

The title "Viride" should be discarded, and "Flavum" substituted as a correct description of the chemically pure product of precipitation found in the "McK. & R. Pills" containing 1-20, 1-16, 1-8 and 1-4 gr.

An examination will show the importance of specifying "McK. & R. Pills" in preference to any other.

**Mercury with Chalk, No. 1 (Hutchinson).**  
{ Hydrag. cum creta, 1 gr. }

**Mercury with Chalk, No. 2 (Hutchinson).**  
{ Hydrag. cum creta, 1 gr. }

**Mercury with Chalk, No. 3 (Hutchinson).**  
{ Hydrag. cum creta, 1 gr. }

This preparation of mercury is the one preferred by Dr. Jonathan Hutchinson; see his lecture on "Abortive Treatment of Syphilis," an abstract of which will be sent to any physician on application. Dr. Hutchinson lays stress on the following points: 1. Early treatment of the disease; 2. Continuous treatment for six months or more; 3. Small doses.

**Morphine, Muriate,** 1-8 gr.  
**Morphine, Muriate,** 1-4 gr.

**Narcotic Extracts (Brown-Sequard).**  
{ Ext. Hyoscyami, Ext. Conii, aa, 1-2 gr. }

**Nitro-Glycerin,** 1-200, 1-100, 1-80 gr.  
Dr. McCall Anderson, mentioning the exhibition of this drug in angina pectoris, says: "My experience of the comparative methods of nitric amyl and nitro-glycerin is, that while the latter acts more slowly, it seems to be more permanent beneficial." Dr. W. E. Greene says, after giving several cases of heart disease: "In this new agent we have a very powerful measure in disease of the heart. Not only palliative, but in many cases actually curative." Dr. Wm. A. Hammond gives this drug in migraine and epilepsy with good result. The above facts are taken from the *N. Y. Medical Abstract*, pp. 278 and 379, 1881, and p. 104, 1882. Dr. Oscar Jennings has

In Ordering be Care

Specify "McK. & R."



"The Pills of McKesson & Robbins are quite of the highest class of merit, in respect to the method, in respect to the materials, and in respect to results."—*British Medical Journal*.

## McK. & R. Caps. Pills—Continued.

Quinine, Sulphate, 1-4 gr.  
Quinine, Sulphate, 1-2 gr.  
Quinine, Sulphate, 1 gr.  
Quinine, Sulphate, 2 grs.  
Quinine, Sulphate, 3 grs.  
Quinine, Sulphate, 4 grs.  
Quinine, Sulphate, 5 grs.

Bi-Sulphate of Quinine is much more soluble than the sulphate, the latter requiring seven hundred parts of water to dissolve it, while the BI-SULPHATE DISSOLVES IN TEN PARTS.

McKesson & Robbins have paid much attention to the subject of putting Quinine into pills, in a condition approaching that of a solution, and have at last succeeded in the BI-SULPHATE OF QUININE PILLS, and offer the same to the profession confident that they will stand any test for solubility and prompt action.

**Quinine Comp. (Anti-Malarial.)**  
{ Quinine Sulph., aa, 1 gr. Menth. Camphor, aa, 1-3 gr. }  
{ Cinchonid. Sulph., 1-40 gr. Capsid Pulv., 1-4 gr. }  
This Pill is largely prescribed in the most severe malarial districts of America with remarkable results.

**R**  
**Rhubarb Comp., B. P.,** 5 grs.  
{ Rhubarb Pulv., 1 1/4 gr. Myrrh Pulv., 5/8 gr. }  
{ Aloes Soc. Pulv., 5/8 gr. Ol. Menth. Pip. 1/2 gr. }  
**Rhubarb Comp. and Blue Mass,** 5 grs.  
{ Pil. Rhubarb Comp., 3 grs. }  
{ Pil. Hydrarg., 2 grs. }

Special Combinations of 3,000 or more Pills made and Capsuled to order for Hospitals and large consumers at special quotations.

Address: MCKESSON & ROBBINS, 91 Fulton St., New York.

## REFERENCE TO THE GELATINE-COATED PILL.

ORIGINATED BY MCKESSON & ROBBINS, 1870.

"The process of coating the McK. & R. pills with gelatine not only takes away the disagreeable appearance, odor and taste, but forms a hermetic coating about the medicine, protecting it from atmospheric moisture, and thus preventing deterioration. This fact enables one to purchase them in larger quantities without fear of change of their composition. They are not affected by climate, changes in temperature, or variations in the hygrometric conditions of the atmosphere; and drugs, which otherwise oxidize rapidly, may be preserved in this state for years. The gelatine coating is perfectly transparent and very thin, so that it requires but half a minute in the mouth to dissolve it. Being of ovoid shape, they do not resemble ordinary coated pills; they are swallowed with the greatest ease where the above mentioned are rejected. The slippery character which the coating assumes after having been taken into the mouth renders the pill almost imperceptible to the sensitive mucous membranes of the soft palate and fauces, and this, we think, contributes greatly to the ease of administration."

(Reprinted from the *Obstetric Gazette*, U. S. A.)

## PERMANENCE.

The question whether McK. & R.'s Pills will remain unaffected in warm, damp climates, seems to be satisfactorily answered in the following extract of a letter from Aspinwall:—

"Messrs. McKesson & Robbins:

"Gentlemen—Almost everything perishes rapidly in this terrible climate, but your Pills put up in bottles keep remarkably well. The dampness does not appear to have the least effect upon them, so long as they are kept in bottles, though ordinary coated Pills are soon spoiled.

Yours respectfully,

"TILOS. S. CASH, Commissary."

We have other letters from various points in the Tropics, speaking to the same effect. During the past few years, many imitations of our Pills, some of them quite inferior, have been put upon the market, and these, we regret to say, are sometimes dispensed on prescriptions when our Pills have been desired; and as the preference for our Capsuled Pills is increased by microscopical and chemical, as well as therapeutical tests of quality, we would most earnestly and respectfully request Physicians to specify "McK. & R." on all prescriptions and orders to their retail druggists, and to order when circumstances will admit, in original vials of 25 to 100 Pills each.

Strychnine, Nitrate (Dipsomania), 1-60 gr.

Luton, Giacomini, Magnus Huss, Morcy, Le-cuyre, Jalliet, Minoz, Dujardin-Beaumetz, and Amagat have recommended strychnine in the treatment of the alcohol habit. During the last few years several Russian physicians have reported their experience with the drug, with the best results. The craving for liquor is said to be entirely destroyed either at once, or very soon after the use of this drug is begun.

### T

**Tonic-Laxative (Fothergill).**

{ Quinine Sulph., 2-3 gr. Strychnine, 1-30 gr. }  
{ Ferrum Reduct., Ext. Bellad., aa, 1-4 gr. }

### V

Valerianates Iron, Quinine and Zinc.

### W

**Warburg Tincture.**

Each pill represents 1 fluid drachm of the tincture.

**Warburg Tincture without Aloes.**

Each pill represents 1 fluid drachm of the tincture.

**Warburg Tincture without Aloes.**

Each pill represents 2 fluid drachms of the tincture

### Z

Zinc, Phosphide, 1-4 gr.

Zinc, Phosphide, 1-2 gr.

Zinc, Valerianate, 1 gr.

# Golden Maltex.

**REDUCED  
TWO PENCE  
PER LB.**

1/- Bottles 9/- per doz.  
1-lb. ditto 18/-  
2-lb. & 4-lb. 1/4 per lb.

Of all Wholesale Houses, or direct from  
the Manufacturer,

**BLACKFRIARS ROAD  
LONDON, S.E.**

The increased output warrants  
the reduction, which is made to  
induce the consumer to purchase  
in larger quantities.

Without in any way dictating to the  
Trade, the Manufacturer would suggest  
their being sold at

**4 ozs. for 6d.**

and a loose label to that effect is sent  
with each bottle.

HANDBILLS (as pattern) sent  
post free on receipt of Trade  
Card.

For fresh NOVELTIES see  
other side.

## PASCALL'S

REGISTERED  
TITLE AND MARK  
87192-93 and  
90587-88.

MANUFACTURED  
UNDER  
PATENT No. 1506.

A  
Nutritious  
and Delicious  
Article of  
Confectionery  
containing 25  
per cent.

ALLEN &  
HANBURY'S  
Malt Extract,  
the valuable properties  
of which cannot be over estimated.

The "Chemist and Druggist" says  
"The tablets are skilfully manufactured  
to look like little gilt bags stitched up with  
red silk, and they are not less attractive  
in consumption. The pharmaceutical  
character they possess is imparted by  
the fact that they contain 25 per cent  
of Allen and Hanburys' Malt Extract."

THORNLEIGH, CASTLENAU, BARNES,  
June 10th, 1889.

"Having put the sample of Golden Maltex Tablets  
to as fair a test as I was able, I have no hesitation in  
saying I think them decidedly beneficial."

On Oct. 14th, 1889, DR. LAKE says—"In answer to your  
further enquiries, I have no reason to alter my opinion about  
Golden Maltex, and I still continue to recommend them to my patients."

R. LAKE, M.R.C.S.E., &c. &c.

Extract from The "MONTHLY MAGAZINE."

"The dietetic and medicinal good qualities of genuine well-prepared Extract of Malt are now pretty  
widely known. Its remarkable powers in assisting digestion makes it invaluable to the delicate or  
dyspeptic patient, the difficulty is in administering it; this objection is avoided by the use of PASCALL'S  
GOLDEN MALTEX TABLETS, which contains 25 per cent of Allen & Hanburys' Pure Extract of Malt, and  
is strongly recommended by the faculty."

19 QUEEN ANNE STREET, W.

"I consider PASCALL'S GOLDEN MALTEX TABLETS an excellent and agreeable substitute for cod liver  
oil, but with this advantage, that they assist and do not impair digestion, and both adults and children  
take them without any difficulty, as they are a most delicious compound. I can scarcely speak too highly  
of their qualities for giving power to delicate children, phthisical patients, and infirm persons with  
feeble digestion."

JOHN TANNER, M.D., M.R.C.P., F.L.S.

ANY QUANTITY CAN BE TAKEN AND AT ANY TIME.

In various sized Packages and loose. The 1-lb. Family Bottles the cheapest form.

**WHOLESOME AND NUTRITIOUS.**

To be had of all Confectioners, Chemists, &c., or sample sent Post Free (Postal Order 1/4) of

**J. PASCALL,**

MANUFACTURING CONFECTIONER,

**BLACKFRIARS ROAD, LONDON, S.E.**

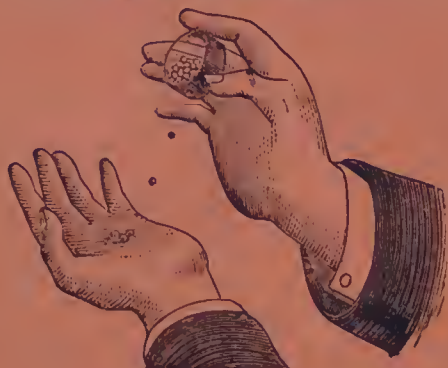
# PASCALL'S BLA-CUR-EX

Composed of Pure Black Currant Extract and Price's No. 1 Glycerine.

(As brilliant and attractive in appearance as Maltex, but of a delicate pink colour).

1/- Bottles 9/- per doz. 1-lb. Bottles 18/- doz. 2-lb. & 4-lb. Bottles 1/4 per lb.

## SILVER CACHOUS.



In Round Patent Box, with glass top, to release one by one.

**2/3 per doz.**

In 1-dozen outer Boxes.

PENNY PACKET

## OCTAGON COUGH LOZENGES.

**8/6 per gross.**

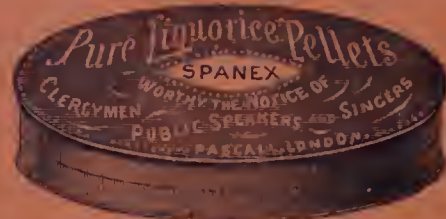
In Half Gross Boxes.

Reduction in price

OF

Golden Maltex

(See other side).



(Faesimile of Box).

## PURE LIQUORICE PELLETS.

**3/- per dozen.**

In 1-dozen outer Boxes.

## SPECIALITIES FOR WINTER WEATHER.

Bronchial, Linseed and Liquorice Tablets, Herbal Cough Drops.

In 2-lb. Bottles and 4-lb. Jars, 9d. per lb.

One to be taken several times a day, and immediately on retiring to rest. For a Child five years of age half a Tablet is sufficient.

SPACE FOR NAME AND ADDRESS.

One to be taken several times a day, and immediately on retiring to rest. For a Child five years of age half a Tablet is sufficient.

## A Leading Line.

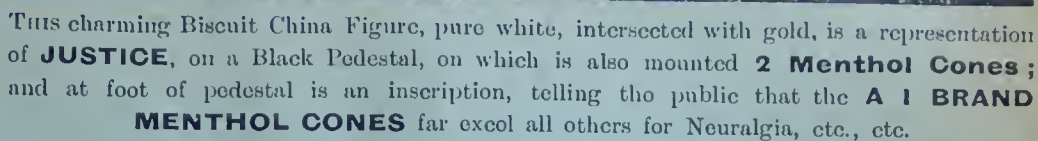
Chemists wishing to push their own name will find this package very suitable. The name and address sent must be printed, to avoid mistakes. Will be ready for delivery within a week of receipt of order.

In Gross Parcels only, through the Wholesale or direct, with your Name and Address, and Carriage Paid, on receipt of Postal Order 25/-

Or can be had through the Wholesale in 3 dozen boxes, plain, without name and address, at 25/- per gross.

Of all Wholesale Houses, or of the Manufacturer,

**JAS. PASCALL, Valentine Place, Blackfriars Road, London, S.E.**



will take advantage of securing this figure, as it is bound rapidly to increase sales.

and to simplify ordering, special parcels, as under, have been arranged

**Parcel B.**--All in printed boxwoods  
5 doz. 6d., 3 doz. 1/-, 2 doz. 4d., realizing  
74/- retail, equal to 85% profit on outlay.

**Parcel D.**—Printed boxwood and other patterns, assorted. 4½ doz. 6d., 3 doz. 1/-, 1 doz. 4d., 1 doz. 3½d., 1 doz. 4½d., realizing when sold, 75/-, equal to 87% profit on outlay.

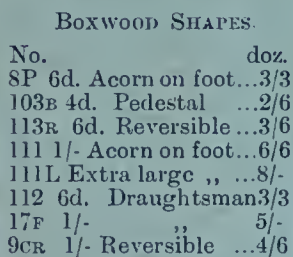
**Parcel F.**—Plain boxwoods and other patterns, to retail from 2d. to 6d. each. 6 doz. 2d., 4 doz. 3d., 1 doz. 3½d., 3 doz. 4d., 1 doz. 4½d., 4 doz. 6d., realizing 68½%, equal to 70% profit on outlay.

**Parcel H.**—Special 50/- parcel made up of 1d. or 2d. sizes only, or an assortment of both.

**Parcel 1.**—Menthol Cones and other preparations of Menthols, embracing 3½ doz. 6d., 2 doz. 4½d., 1 doz. 1/-, and 1 doz. 4d. cones; 1 doz. Toothache Tubes, 1 doz 7½d. Menthol Ointment, 1 doz. 3d. Menthol Snuff, and 1 doz. packets of Menthol Leaves, realizing retail 68/6, equal to 70% profit on outlay.

In Hot Climates this charming figure will be found invaluable, as it can be kept in the window instead of the cones, which are so liable to melt if exposed to too great heat. Even from this point of view alone, every chemist should have a JUSTICE.

The following patterns in MENTHOL CONES are recommended as Saleable and Good Value.



6	6d. Printed Boxwood		
	Pedestal ...	3/6	
14L	1/- ,,	...	6/3
17s	6d. Draughtsman		3/9
17FP	1/- ,,		5/6
7E	9d. Barrel ...		4/6



Chemist's own name printed free on gross lots of Printed Boxwood Case.

CHEAPER SHAPES.

No.	In Wood.	gross.
110	1d. Bottle shape	...6/3
110v	1d. Vase shape	...7/-
110r	1d. Pedestal shape...	...7/-
110E	1d. Reversible shape	7/-
114	2d. Vase. varnished	14/-
114r	2d. Pedestal „	14/-
	Above are 8 doz. on a card.	
115	3d. Flat shape, 2 doz.	...20/-
	on card	... doz.
109	4d. Willow Pedestal...	...2/6
117	6d. Large „	...3/3
118	6d. Lighthouse...	...3/-
	(A capital line.)	

GLASS AND OTHER PATTERNS.

26A	6d.	Glass Shade	...3/6	doz.
27A	1/-	China or Com-		
		position Foot	...6/3	
30	4d.	Boxwood Foot	...2/-	
31	9d.	" "	...5/-	
33	4d.	Enamelled "	...2/9	
20	1/-	special export line, the Stopped Bottle Cone, mounted on Stopper, suited for hot climates	...7/-	
13A	9d.	Ivory Acorn	...4/3	
17v	"	Draughtsman	...5/6	

## Special Quotations to Large Buyers

*Be careful to order as*

**SHIRLEY'S A I BRAND.**

Most valuable preparation for  
Rheumatism, Lumbago, etc., curing  
the most obstinate cases.  
In blue pots, black & gold labels,  
8/- doz. ; in grease-proof boxes,  
1 doz. on a card, 5/9 doz.  
Supplied in bulk for dispensing,  
½lb. 1/6, ¼lb. 2/9, 1lb. 5/3 ; jars extra.

A new article in which Menthol is applied in same way as Mustard Leaves. Most useful in cases of Sciatica and Nervous Headache, also to those suffering from Sleeplessness. 3/6 doz. packets, 3 loaves in packet. These will stand any climate.

... A boon for those in hot climates, where the cones are difficult to keep, owing to evaporation.

1 doz. on a card, 3/8 doz.  
Hermetically sealed. A splendid  
line for export. Two such powerful  
anodynes guarantee the efficacy of  
this article.

In tin boxes, 1 doz. on card, 1/8 doz.

A 1 Menthol Cone and Smelling Salts, combined, in Boxwood Case, Menthol one end, Salts the other, 8/- doz.  
 " " Toothache Essence, " " " " " Essence " 4/- "

ARTHUR W. SHIRLEY, 55, FARRINGDON ROAD,  
LONDON, E.C.

# "This page interests only those desirous of increasing their Trade !!!"



Charming  
Easel  
Card.  
—  
Fragrant  
Soap,  
Cleansing  
to  
the teeth.  
3/9 doz.



4/- doz., 3 doz. lots 3/9  
Prettily labelled,  
Attractive card.

## Fullers' Earth.



In round tin  
boxes, with  
picture on lid,  
or simply  
labelled as in  
illustration,  
4/- doz.  
3 doz 3/9 doz.

## Floral Cachous.



Violet, Musk. Helio-  
trophe, &c. Diamond  
and heart shape. In  
bronze tin boxes,  
prettily labelled, 2 doz.  
in box.  
2/3 doz. 24/- gross.  
These Cachous have a  
distinct flavour of the  
flowers. In bulk, 2/9 lb.

## Carbolic Tooth Powder.

Very attractive, put up in tin  
boxes. Splendid powder.  
1oz. 3/- doz., 6 doz. 2/9, 12 doz. 2/6  
1 1/2 oz. 3/6 ,, ,, 3/3, ,, 3/-  
3oz. 5/- ,, ,, 4/9, ,, 4/6  
1 gross lots, buyer's name on  
label free.

## A1 POCKET

A Long-Felt want.



## INHALER.

To Retail at 6d.

PROVISIONALLY PATENTED.

The Inhaler is in the form of a cigarette tube, opening at A, with air-hole at B, and a mouthpiece C. Each inhaler is filled with camphor, cotton wool being first inserted in the barrel, so that the air is filtered through. It will be found invaluable to those suffering from Asthma and chest affections generally, for use when going into the cold or foggy air. Also a safeguard against Cholera, Diphtheria, Influenza, Scarlet Fever, Miasmas, etc. Other medicaments can be readily inserted into the barrel of the Inhaler. Neatly carded, 3/9 doz.

Simple, Cheap, Effective.

## A Charming and Useful Novelty.



This is a purse made of various colored kid, and lined, in which is fitted a smelling bottle, the purse clasping over the bottle, and thus preventing all chance of the stopper coming out in the pocket, as so frequently happens. This is really a boon to ladies, who cannot resist buying them.

In two sizes  
Small, including bottle, 7/- doz.  
Large, ,, ,, 8/- ,,

## Another Novelty. (Regd.) The Pouch Puff.



A charming article, made of lined Cretonne, the puff being fixed on the inner flap. The handiest kind of puff ever offered, as it folds flat for the pocket.

In glass-topped boxes, 3/9 doz.

## AN A1 ARTICLE.



Being in a glass tube fitted with a cap, which has simply to be taken off and the pencil applied. Sponge is fitted into the tube, through which, by the action of rubbing, the liquid oozes. This is a really effectual line.

3/6 doz. Attractively carded.

## Smelling Bottles,

## Odorators,

## China Bottles, &c.

Hundreds of patterns to select from. London buyers can call and inspect samples. Country and Foreign customers can be certain of being pleased if they order an assortment, stating styles they prefer and retail price they wish to sell at. Special attention is given, so that only saleable and newest patterns are sent.



No. 52.

- No. 52, Charming cut watch shape 5/- doz.
- 168 The best 6d. watch ever brought out ... 3/6 ,,
- 238 A capital watch, with anchor in glass ... 3/- ,,
- 157 Toilet perfume bottle, 2 oz. 12/-, 4 oz. 21/-, 6 oz. 38/- ,,
- 180 Very handsome, wide mouth bot. 9/6 ,,
- 8 Large watch, cut edges & sides 6/6 ,,
- 154 Assorted colored, Maltese Cross stopper ... 4/6 ,,
- 275 Wide mouth, useful bottle, with gold band round neck 10/- ,,



No. 3.

- No. 257 China scent bottle, nickel cap ... 5/- doz.
- 255 ,, watch ,, ,, ... 8/6
- 279 ,, ,, ,, ,, ... 4/-
- 280 ,, octagon shape ... 3/6
- 281 ,, small watch ... 3/6
- All above prettily decorated with birds, flowers, etc.

- No. SPRAYS.—
- 1 Double ball, globe shape, opaque glass, raised flowers & gold... 28/-
- 3 Single ball do. do. ... 17/-
- 32 Double ball, assorted colored glass 22/-
- 41 Best 1/- line in the market... 8/6



No. 257.

ARTHUR W. SHIRLEY,

55, Farringdon Rd.,  
London, E.C.

**"This page being equally interesting,  
it should not be missed !!!"**

**ARTHUR W. SHIRLEY,**  
AS MANAGER OF THE  
**BABIES' FEEDING BOTTLE**  
**COMPANY,**

*Invites the attention of the TRADE, Wholesale, Retail and Export, to the Goods offered by  
this Company, and the advantages of same.*

1. We do not supply GREEN bottles, unless specially wanted, but, instead of this colour, have a specialité of our own, which we term "Demi-Blanc," signifying "Half-White." This glass is hardly distinguishable from white, and by many, our "Demi-Blanc" bottles are sold as white, the most practised eye alone being capable of discerning the difference.
2. All rubber used is black, made from best English sheeting, and SULPHUR CURED, which enables it to WITHSTAND ANY CLIMATE. Most rubber used by manufacturers of feeding bottles is carbon cured, which is disagreeable to both taste and smell; this is not so with sulphur-cured rubber, and on this account alone we claim for our goods a marked superiority.
3. The prices charged as such that we defy competition, and all who have our goods assert them to be by far the best value in the market; yet, while prices are low, quality is first class, both as regards bottle, rubber and fittings generally.

 **For Prices of various Bottles, please turn over.**

**FEEDING BOTTLE FITTINGS.**

**TEATS AND TUBING.**



4th size.



2nd size.

POLISHED SEAMLESS,	Best Quality, Black, 1 hole, 1st size, 1 doz. in box	... 5/9 gross net
No. 1E, 8/- per gross.	Special " " " " 2nd size "	... 5/6 "
" 2E, 9/- "	Best " " " " 2nd size "	... 8/6 "
" 3E, 12/6 "	Special " " " " 3rd size "	... 6/6 "
" 4E, 16/- "	Best " " " " 3rd size "	... 10/9 "
1 doz. in box.	Special " " " " 4th size "	... 8/3 "
	Best " " " " 4th size "	... 12/9 "

Teats, one to five leech bites at above prices.

**SPECIAL LARGE WHITE TEATS FOR LAMBS** ... 2/- per doz.

**Black India-Rubber Tubing,** BEST QUALITY, 36 yds. to lb. ... 9/6 per lb. net

" " SPECIAL " 38 " " 8/- "

(Best Quality Sulphur Cured, as explained above).

**LOOSE FITTINGS.**

**Glass Unions,** small, 2/9; large, 3/9 per gross. **Wood Unions,** 8d. per gross. 3 doz. in box

**Glass Tubes,** 1/- per gross net, 1 gross in box

**Glass Valve Tubes,** 3/9 per gross net, 1/2 gross in box.

**Bottle Brushes,** 4/- per gross. **Tube Brushes,** 2/6 per gross. **Bone Shields,** small, 1/6; large, 2/6

**Boxwood Corks,** 3/6 per gross. **Washers,** 2/9 per gross.

**SPARE SETS OF FITTINGS.**

For Nos. 1 & 2 Feeding Bottles, consisting of black teats and India-rubber tube, bone shield, glass tube, and lgc. glass union	3/-
For " " " " " " " " " " " "	3/6
For No. 3 Feeding Bottle, consisting of black teat, small glass union, bone shield, India-rubber tube, and glass tube	2/3
For No. 4 " " " " " " " " " " " "	1/9
For No. 5 " " " " " " " " " " " "	1/6

**SPECIAL PRICES TO LARGE BUYERS.**

**EXPORTERS!** Please read paragraph 2 above; it is an important one to shippers.

*THIS LIST IS SUBJECT TO THE FLUCTUATIONS OF THE MARKET.*

**Babies' Feeding Bottle Co.** 55, FARRINGDON RD., LONDON, E.C.  
Manager:—**Arthur W. Shirley,**

# PRICE LIST

## OF THE

# BABIES' FEEDING BOTTLE COMPANY.

Under the management of ARTHUR W. SHIRLEY, 55, Farringdon Road, E.C.

See page before this for advantages offered by this Company.

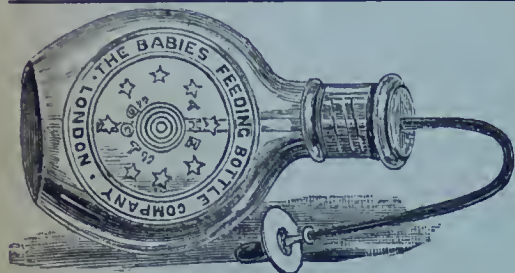


Fig. 1, 2, 3 and 3A.

**KEEP THIS LIST**  
for Reference, and  
**COMPARE OUR PRICES'**

**SPECIAL PRICES**  
To very large buyers.

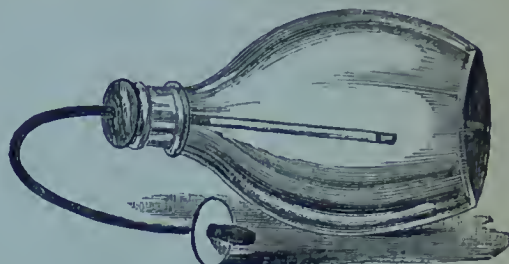


Fig. 4.

- |          |   | Price per doz. net |
|----------|---|--------------------|
| Fig. 1.  | <b>THE DOT.</b> WHITE GLASS Bent Neck Feeding Bottle, with serew glass stopper, fitted with pure black Indiarubber, sulphur cured (see paragraph 2 overleaf) teat and tubing, glass valve tube, glass union, spare teat and glass tube, each in superior fancy box with two brushes ... | 8/-                |
|          | Spare bottles, with stopper, 2/- per doz.; without stopper, 1/6 per doz.  |                    |
| Fig. 2.  | <b>THE DOT.</b> WHITE GLASS Bent Neck Feeding Bottle, with serew glass stopper, fitted with pure black Indiarubber teat and tubing, glass union and glass valve tube, each in superior fancy box with two brushes   | 6/6                |
|          | Spare bottles, with stopper, 2/- per doz.; without stopper, 1/6 per doz.  |                    |
| Fig. 3.  | <b>THE DOT.</b> DEMI-BLANC GLASS (see paragraph 1 overleaf) Bent Neck Feeding Bottle, serew glass stopper, fitted with pure black Indiarubber tubing and teat, and glass union, each in separate box with two brushes   | 4/6                |
| Fig. 3A. | " " 7-inch tube, each in box with tube brush ...  | 4/-                |
|          | " " 12 in partitioned wood box ...  | 3/3                |
|          | " " each wrapped in paper bag ...   | 3/-                |
|          | Spare bottles, with stoppers, 1/6 per doz.; without stoppers, 1/2 per doz.  |                    |
| Fig. 4.  | <b>THE EXPORT.</b> DEMI-BLANC GLASS Bent Neck Feeding Bottle, serew glass stopper, glass union, fitted with black Indiarubber tubing and teat, each in fancy box with tube brush ...  | 4/-                |
|          | " " 1 doz. in partitioned box ...   | 3/3                |
|          | " " each in paper bag ...   | 3/-                |
|          | Spare bottles, with stoppers, 1/6 per doz.; without stoppers, 1/2 per doz.  |                    |
| Fig. 5.  | <b>THE SPECIAL.</b> WHITE GLASS Feeding Bottle with well-finished neck, black India-rubber tubing and teat, and boxwood top cork, 1 doz. in partitioned wood box ...  | 3/-                |
|          | " " each in paper bag ...   | 2/9                |
|          | Spare bottles 1/- per doz.  |                    |

Fig. 3 can be fitted with polished seamless teat by paying 9d. per gross extra.  
Fig. 3A, 4 and 5 " " " 1/9 "

**NOTE.—Customers' names stamped on bottles FREE for two gross orders.**

## The "SAFETY" and "DUPLEX" Boat-Shaped Feeding Bottles.

An OLD SHAPE with A DECIDED NOVELTY, in combining the advantages of the boat-shape with the latest improvements in stoppers.



- |         |   |  |
|---------|---|--|
| Fig. 6. | <b>THE "SAFETY."</b> WHITE GLASS Boat Feeder fitted with screw stopper, each in fancy box with bottle brush. Fig. A ...                                 | Per doz net 6/-  |
| Fig. 7. | <b>THE "DUPLEX,"</b> fitted with patent stopper and offering the following advantages:—   |  |
|         | 1. Teat can be fitted to stopper as Fig. A, whereby bottle is used as the old-fashioned boat-feeder.  | complete with separate fittings each in box with 2 brushes 9/-per doz. |
|         | 2. A glass tube may be fitted to inside end of stopper, as Fig. B, with the advantage that the bottle when in use may be held in any position.          |  |
|         | 3. The teat may be removed from the stopper, and an indiarubber tube substituted, so that the bottle may be used as an ordinary feeding bottle. Fig. C. |  |
|         | 4. The fittings can be easily removed and thoroughly cleansed with the least possible trouble.  |  |
|         | 5. By using the "Duplex" patent stopper, all leakage is prevented.  |  |
|         | 6. There is a small air-hole, the size of a pin's head, in the body of the bottle, thus rendering the power of suction far easier.                      |  |

The BABIES' FEEDING BOTTLE Co.  
Manager, ARTHUR W. SHIRLEY. 55, Farringdon Rd., London, England

# TO ALL WHOM IT MAY CONCERN.

It is said "The love of money is the root of all evil." This is the truth, but not the whole truth. It is a well-known fact beyond dispute that the object of every man in every walk of life, no matter what his trade, calling, or profession may be, is to make money. The object is a worthy one, provided honesty and truthfulness guide him in all his dealings.

It is an interesting study to watch the two classes of the great human family—the honest trader and the fraudulent schemer—in the race for a fortune. They both furnish abundant material for reflection.

The Chemists and Druggists are, taking them as a whole, highly respectable and useful members of society. They possess a large amount of skill and knowledge, which enables them to sound a note of warning to many of their friends who may apply to them for advice in time of need, and their advice and assistance are appreciated by the public at its right value. The honest trader enjoys the full confidence of every business man. His resolution to do what is right strengthens his energy, brightens up his inventive capacity, and offers an abundant scope for his ingenuity. But, alas! there is

## A BLACK SHEEP IN EVERY FLOCK,

for the fraudulent trader is to be found here and there in all parts of the kingdom. It is to be hoped, however, that the mean and dishonest schemers are only the struggling fringe of humanity, although it appears that the fraudulent tendencies of some have taken a deep root down into human nature. Some of them are possessed of a good share of intelligence, skill, and commercial activity, and they work with a will (worthy of a better cause) in trying to filch from a brother man his vested interest in a life-time's work, and, when they close for the day, oh! with what pleasure do they look upon the few coppers saved by trading upon the reputation of another, retiring with bright anticipations of the morrow. But none of us know what the morrow will bring, and the unexpected often appears.

The seed sown in the past may spring up in the morning in the shape of a Writ commanding the wrongdoer to appear at the **Bar of Justice** to give an account of his fraudulent transactions.

It is not an elevating spectacle to see three or four in one day at the Bar of Justice, but such has been the case.

The situation to any one must be very painful, and more so when brought out into the open and fierce glare of publicity. With heavy expenses reducing ill-gotten gains is bad enough, but a tattered and ragged reputation is such that no soap will wash out, neither will the sticking-plaster of sympathy hide it.

I am not unmindful of the amount of gratitude due from me to my brethren in the trade, and I beg to tender them my most grateful thanks for the assistance they have given me in so helping on the sale of my Pills that they are now become one of the leading articles in their business of everyday life.

I cannot conclude without a few words of advice and **warning** to those who have been for a long time defrauding me for the sake of a little extra profit. I can assure them I owe them no grudge, and have no vindictive feeling at all towards them. I hold out to them (one and all) the hand of true fellowship; but I would have them **BEWARE!** for I do not intend to let my rights slumber too long, and upon all who are found infringing them I shall, without fear or favour, bring down the strong arm of the law.

All will find "Honesty is the Best Policy," and pays the best in the long run. To succeed in business covetousness and imitations must not enter therein. There is only one way to true success—Obey the whole code of commercial ethics, which can be summed up in two words—

**HONESTY AND TRUTHFULNESS.**

**THOMAS BEECHAM,**  
**ST. HELEN'S, LANCASHIRE.**

# SHARLAND & CO.

## 119 & 120 LONDON WALL, E.C.

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References given and required. Samples and Quotations solicited.

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HEINRICH HAENSEL — Olea aetherea sine terpeno.

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ROBERT FRERES — Triple Extraits and Olive Oil.

STEVENSON & HOWELL — Special Belfast Flavour, Gum Foam, &c. &c.

W. TOOGOOD — W.-Brand of Dispensing Bottles and Chemists' Sundries.

Correspondence invited and should be addressed to Charlotte Place, Sydney. Special facilities for introducing new lines.

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## FOREIGN AND ENGLISH CHEMISTS,

WHOLESALE, IMPORT, AND EXPORT AGENTS FOR

## FOREIGN MEDICINES AND PATENTS, 76 NEW BOND STREET, LONDON.

Messrs. Roberts & Co. beg to inform the Trade that they are Agents for all the principal French and Foreign Specialities and Medicines, a large supply of which they have always on hand, and can supply on very favourable terms. They are in daily communication with their Paris House, and can offer exceptional facilities for procuring New Medicines, &c., &c., with very little delay. The following is a list of a few that they name *au hazard*, and that have a large sale:—

Retail	Per doz.	Retail	Per doz.	Retail	Per doz.	Retail	Per doz.
4/6..Alceol de Menthe Ricques	41/6	4/5..Capsules Matico	35/	9/..Laville's Gout Tincture	81/	2/9..Rabuteau's Syrup Ferrug.	24/6
2/9..Ditto ditto	21/	4/6.. " Mathey Cayius	35/	9/.. " " Pills	78/	4/0..Racahont des Arahes	31/
2/9..Aubergier's Syrup	27/	4/6..Chassalng's Wine	39/	1/11 Papier Fayard	6/9	4/6..Reynal's Bougies	38/
1/9.. " Pâte	15/	2/9.. " Pills	24/	2/3..Ditto	13/6	2/9..Ricord's Injection	24/
6/6..Bay Rum	57/	4/6..Olin's Dragées Bromide Cam.	45/	2/3..Papier Fruneau	14/6	4/6.. " Capsules	36/
3/6..Ditto	31/	5/..Eau de Botot (Genuine)	40/	4/..Ditto	24/6	9/.. " Syrup	90/; 4/6; 42/
2/..Belloo's Charcoal	15/	3/..Ditto	24/	1/9..Pâte d'Aubergier	15/	1/6..Star Paper	11/
1/9.. " Lozenges	15/	2/..Eaple's Oigarettes	13/6	1/9.. " de Berthé	15/6	1/9..Vallet's Pills	14/6
4/6..Blancard's Pills	32/	4/6..Elixir de Cocoa (Mariani)	48/	2/9.. " de Coca Mariani	25/	2/3..Ditto	23/
2/6..Ditto	18/	2/9..Flon's Syrup	23/	1/9.. " de Georgé	14/6	4/6..Veloutine (White, Pink, Oim.)	28/
4/6..Brou's Injection	27/	..Gayetty's Paper	..	1/11 " Ditto	9/	3/6..Ditto ditto	22/
4/6..Bugeaud's Wine	36/	2/3..Granules Arsen. Aoid	13/6	1/6.. " de Nafé	13/6	4/6..Valentine's Meat Juloe	34/
3/6..Buliv's Vinegar	30/	2/9.. " Iron	14/5	1/9.. " Regnaud	14/6	£19/10 gross	
2/..Ditto	14/6	2/9.. " Soda	15/4	7/..Pierlot's Valerian	60/	2/9..Vichot's Trochisques	22/
1/6..Candé's (Lait Antéphiliq.)	36/	2/9..Grimault's Syrup Lime	24/	2/9..Rabuteau's Dréees Ferrug.	24/6	4/6..Vin Mariani	36/
4/6..Capsules Bromide Camph.	45/	2/3..Guyot's Liq. Goudron	18/	7/0.. " Elixir Ferrug.	65/		

Sole European Agents for Battle & Co.'s Bromidia and Iodia, and Blount's Oil of Tar. Special Agents for Lambert's Listerine, Valentine's Meat Juloe Mack's Pumilio Pine Products, and Mariani's preparations. Special Quotations in large quantities.

MM. Roberts & Cie. ont l'honneur d'informer MM. les Pharmaciens Spécialistes de France et de l'Etranger qu'ils se mettent à leur disposition pour des dépôts qu'ils voudraient établir à Londres. On peut avoir tous renseignements en s'adressant à leur maison de Londres ou à Paris.

SPECIAL AGENTS FOR MARIANI'S ELIXIR, EXTRACT PATE, PILLS, SYRUP AND WINE OF COCOA, AND FOR VALENTINE'S MEAT JULOE AND LE GRAND'S ORIZA PERFUMERY.

Established]

House in Paris: ROBERTS & CO., Rue de la Paix 5.

[1823.



ESTABLISHED 1870.

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*All parts of Queensland visited at regular intervals by experienced Travellers.  
Agencies solicited from Firms who are prepared to actively introduce their Manufactures into the Colony.*

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Is largely advertised in all the Medical Papers, and daily prescribed by Physicians; it will therefore be in the interest of Chemists to always stock a few bottles, which can be obtained of all the Patent Medicine Warehousemen. The Wholesale and Shippers should apply for prices (packed in cases of Six Dozen Bottles, either in or out of Bond) to the  
**SOLE CONSIGNEE FOR GREAT BRITAIN AND THE COLONIES—**

**GABRIEL JOZEAU, 49 HAYMARKET, LONDON.**

*P.S.—Write for Catalogue of Gabriel JozEAU, which is the only complete list of French Medicines in the United Kingdom.*



Retail Price, **45s.** per Dozen, or  
**4s.** per Single Bottle.

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# WESTERN AUSTRALIAN DISTILLERY CO.

LIM.

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STRICTLY † PURE

# Sandal Wood Oil

Manufactured on the spot with the latest ENGLISH  
Machinery, by ENGLISHMEN, and in an ENGLISH  
Colony. The Oil is guaranteed absolutely pure.

It is put up in sealed Bottles and small Cases, suitable  
for all Markets.

(Cheaper than “London drawn,” and superior to “imported” oil.)

Can be obtained from all the WHOLESALE HOUSES, and also in original packages, from the SOLE BRITISH AGENTS:

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Precipitated in Powder	...	...	Melting Point	156.6 C.
Crystals	...	...	"	157° C.
Physiologically Pure	...	...	"	157° C.

**SALICYLATE OF SODIUM**—Absolutely Pure, and Physiologically Pure.

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TRADE MARK.

FOR THE TREATMENT AND CURE OF ALL

**DISEASES OF THE LUNGS, WINDPIPE, NOSE & THROAT.**

CLAIMS TO BE A

Specific for all Congestive and Inflammatory Conditions of the Respiratory Apparatus,  
And will be found efficacious in

## COUGHS AND COLDS, ASTHMA, BRONCHITIS,

Inflammation and Congestion of the Lungs, Pneumonia, Pleurisy, Whooping Cough, Croup, Diphtheria,  
Pharyngitis, Laryngitis, Catarrh, Sore Throat, Quinsy, Enlarged Tonsils, Hoarseness, Loss of Voice,  
Colds in the Head, Hay Fever, and all other Complaints of the Respiratory Organs.

None Genuine except such as bear the above Trade Mark "SPIRONE" and the Signature of the Inventor upon the  
Bottles, on the Label over the Cork, and on the Wrapper.

Retail Price 4s. 6d. and 11s. per Bottle. Set of Apparatus for Administration, 15s.

PAMPHLETS AND SHOWCARDS FREE ON APPLICATION.

**THE SPIRONE COMPANY LIM.** Depot—17a Duke Street, LONDON W.  
MANCHESTER SQUARE

# SPECIALITIES IN SURGICAL DRESSINGS.

ABSORBENT

Cotton Lints,  
Flax Lints,  
Roll Bandages,  
Cotton Wools,



TRADE MARK.  
(Registered)

"Gamgee Tissue"

(PATENT ABSORBENT GAUZE AND  
COTTON WOOL)

AND

ANTISEPTIC  
DRESSINGS.

MANUFACTURED BY

## ROBINSON & SONS,

Cotton Spinners, Weavers, and Bleachers,

### WHEAT BRIDGE MILLS, CHESTERFIELD,

And 55 Fann Street, Aldersgate Street, LONDON, E.C.

## WILLIAM FOX & SONS,

WHOLESALE DRUGGISTS, &c.,

109 & 111 Bethnal Green Road, LONDON, E.

Cabinet Varnishes, Polishes, Glaze, Finishing Spirit,  
Glues, Wood Stains, Gums, Resins, Shellacs.

PRICES FORWARDED ON APPLICATION.

TELEPHONE NO. 1499.

## ENEMAS.

For quotations of all descriptions see Druggists'  
Sundries List of undersigned.

See Advertisement, page 101.

### EVANS, SONS & CO.

LIVERPOOL.

LONDON:  
EVANS, LESCHER & WEBB,  
60 Bartholomew Close.

CANADA:  
EVANS AND SONS, LD.  
Montreal, Toronto; and Victoria,  
British Columbia.

### DENOVAL'S MEDICINAL CAPSULES

ARE THE BEST AND CHEAPEST.

Attention is called to the following articles:—

ON THESE

### MEDICINAL CAPSULES

CHEMISTS ARE  
ALLOWED  
A LARGE PROFIT.

SANTAL OIL CAPSULES, PERUVIAN  
MIXTURE CAPSULES, COPAIBA  
BALSAM CAPSULES, CUBE OIL  
AND COPAIBA CAPSULES, MALE  
FERN CAPSULES.

ALL KINDS OF CAPSULES.

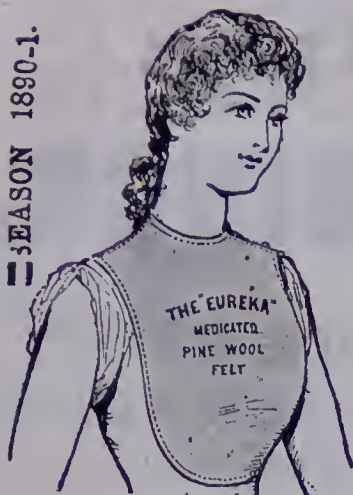
### DENOVAL'S INJECTION.

ALL DRUGS WARRANTED TO BE GENUINE

### JULES DENOVAL,

Carlton House, 4 New Cross Road, London, S.E.

SEASON 1890-1.



## CHEST PROTECTORS.

THE LARGEST SALE IS NOW  
THE "EUREKA"

### MEDICATED PINE WOOL FELT PROTECTORS.

The invention of Vincent Wood, and recommended by E. J. G. Berkley, L.R.C.P. Lon., M.R.C.S., &c.

X Procurable from every Wholesale House at prices as follows:— X

Sizes	0	1	2	3	4	5	6
Single	6/	7/6	9/6	12/6	15/6	20/	25/
Double	13/	15/6	20/	25/	30/	36/	42/

The colour is fast, and the material will thoroughly wash.  
Also made in all patterns, Pine Felt (non-medicated and to suit any Pattern)  
Scarlet and White, also Flannel or Felt and Chamois (Perforated or non-ditto.)

**VINCENT WOOD** (Estab. 1840), 3 ST. ANDREW'S LONDON, E.C.

TELEPHONE No. 6757. TELEGRAMS—"ACME, LONDON."  
Please ring us up for any information required.

LARGEST MAKER OF  
TRUSSES, BELTS, ELASTIC  
HOSIERY, SUSPENDERS;  
OBSTETRIC BINDERS,  
CHEST-EXPANDING BRACES,  
GALVANO-ELECTRIC AND  
MAGNETIC BELTS, ETC.

Chemists supplied Free of  
Charge with Statuettes,  
Show Cards, and Circulars  
for season's order.

Please favour me with  
SAMPLE ORDER.



## ODORATORS of EVERY DESCRIPTION

(Registered No. 150,495), for Perfuming and Disinfecting Apartments, &c., &c.

### SUSPENSORY BANDAGES

Largest Stock and Greatest Variety in London.

INDIA-RUBBER BANDAGES, BATH AND FRICTION CLOVES,  
CHEST PROTECTORS,  
EYE SHADES & FINGER-STALLS, WATER-COMPRESSES,

And invite enquiries for these and allied lines. We supply goods unsurpassed for quality, workmanship,  
and finish, elegantly and attractively put up.

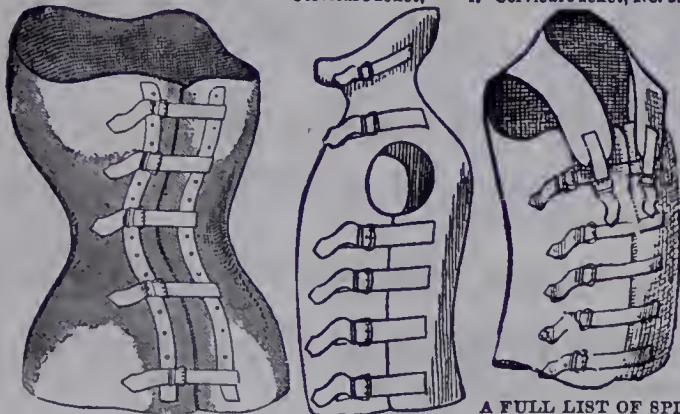
PRICE LIST ON APPLICATION. SAMPLE SETS AT REDUCED RATES.

**F. SCHUTZE & CO., 36<sup>A</sup> ALDERSGATE ST., E.C.**

COCKING'S ADAPTABLE PORO-PLASTIC JACKETS AND SPLINTS.

Patentee and Sole J. T. COCKING, PLYMOUTH.

Cervical Jacket, 1. Cervical Jacket, No. 3.



JACKET  
(in cases of slight deformity)

INSTRUCTIONS  
FOR MEASUREMENT.

Circumference at axilla.  
" waist.  
" hips.  
Length from axilla to great  
trochanter.

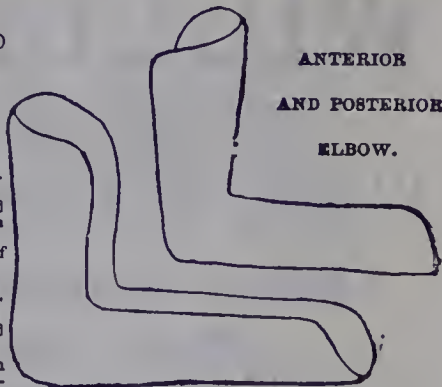
In severe angular cases circum-  
ference over apex of curve, posi-  
tion of ditto, and contour should  
be given; in lateral cases a  
description of the case.

In all cases it must be stated if  
for male or female.

**CERVICAL JACKETS.**

Same measurements required  
and circumference at neck, and  
length from neck to axilla.

Any part of the Jacket can  
in the process of manufac-  
ture be left soft.



A FULL LIST OF SPLINTS AND PORO-PLASTIC IN SHEETS MAY BE HAD ON APPLICATION

## DISPENSING BOTTLES & PHIALS.

We beg to call attention to the following GREATLY  
REDUCED PRICES:—

CLEAR BLUE TINTED, Plain or Graduated—

3 and 4	6 and 8	12	16 ounces.
7/6	8/8	11/8	16/- per gross.

THE NEW CRYSTAL BLUE TINTED, Handsome Colour & Clear Glass—

3 and 4	6 and 8	12	16 ounces.
9/-	10/-	14/-	18/- per gross.

All other kinds and sizes equally low. Please write for prices of  
any size required.

**I. ISAACS & CO.**

GLASS BOTTLE MANUFACTURERS.

25 FRANCIS ST., TOTTENHAM COURT ROAD,  
LONDON.

BANKERS: LONDON AND WESTMINSTER BANK.

ESTABLISHED UPWARDS OF 50 YEARS.

## SMELLING BOTTLES

For quotations of all descriptions see Druggists'  
Sundries List of undersigned.

See Advertisement, page 101.

**EVANS, SONS & CO.**

LIVERPOOL.

LONDON:

EVANS, LESCHER & WEBB,

60 Bartholomew Close.

CANADA:

EVANS AND SONS, LD.

Montreal, Toronto, and Victoria,  
British Columbia.



## COMFORT FOR THE FEET.

Corns and Bunions may be removed, and enlarged Toe Joints reduced, by using *Thompson's New French Corn Plaster*. Sole Proprietor, M. F. THOMPSON, Homoeopathic Chemist, 17 GORDON STREET, GLASGOW, from whom the Plaster may be had in Packets, by post, for fourteen stamps. Those who are troubled with the discomfort of Corns or Bunions will be glad to have attention called to this remedy, as it removes pain very speedily. It is a simple Plaster, thin as silk, and comfortable to the foot.

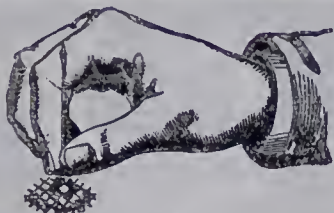
Ask your Chemist for it, and take no Substitute.

Wholesale 9/6 per dozen, cash with order, post free.

May also be obtained through London Wholesale Houses.

Walking is now really a pleasure to me. It is put up on Cards. "Very saleable."

Trade Mark.



Registered.

THE  
**ASSOCIATION for the SUPPLY of PURE VACCINE LYMPH,**  
12 PAUL MALL EAST, LONDON, S.W.  
SOLE AGENTS FOR DR. WARLDMONT'S CALF VACCINE.

Tubes, 2s. each; Half Tubes, 1s. each. Pomade in vials, 6s.  
HUMAN VACCINE, from healthy children only, microscopically examined and source quoted. Tubes, two-thirds full, 1s. 6d. each; Tubes one-third full and Lancet-charged points, 1s. each; Pin-points, 1s. 1d. each. Eighteen charged Small Points, 6s. Tubes, two-thirds full (same as those mentioned above, but without source), in quantities for export, £5 per 100 Tubes. Pin-points uncharged, 1s. per dozen. Vaccine Ejectors, 1s. 3d. each, including postage. Vaccinations by appointment. P.O.O.'s (including postage, and crossed London and Westminster Bank) with orders, payable to  
EDWARD DARKE Secretary.

Office hours 10 to 4 Saturdays 10 to 2

# TRUSSES.

For quotations of all descriptions see Druggists' Sundries List of undersigned.

See Advertisement, page 101.

**EVANS, SONS & CO.**  
LIVERPOOL.

LONDON:  
EVANS, LESCHER & WEBB,  
60 Bartholomew Close.

CANADA:  
EVANS AND SONS, LO.  
Montreal, Toronto, and Victoria,  
British Columbia.

The Mormon Elder's

## DAMIANA WAFERS

THE MOST POWERFUL  
INVIGORANT  
EVER PRODUCED.

Permanently restores those weakened by early indiscretions, imparts youthful vigor, restores vitality, strengthens and invigorates the BRAIN AND NERVES. A positive cure for IMPOTENCY. Prompt, Safe, and Sure.  
4/6 per box, 6 for 22/6. Usual discount to the Trade. Send for Circular.

F. B. CROUCH,  
202 Grand Street, New York City  
London Depot, 51 Strand, W.C.

Hovenden & Son, Sanger & Son,  
Barclay & Sons, Edwards & Son, and  
all Wholesale Druggists.



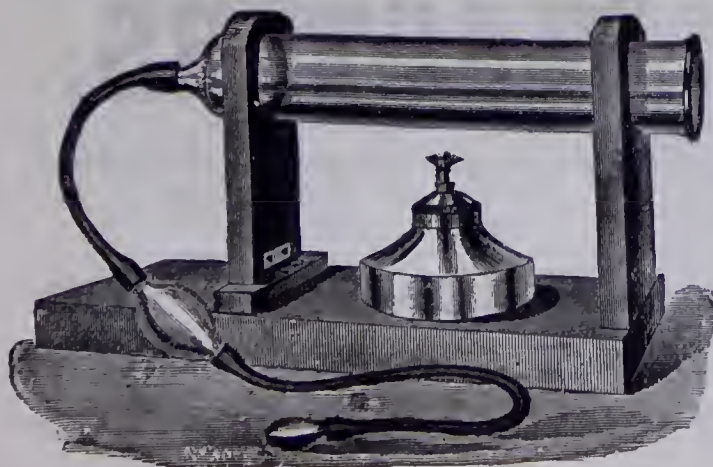
# FRANK WOOD

(From W. WOOD & SON, MANCHESTER),

42 BELVOIR STREET, LEICESTER.

Trusses, Single...	...	...	12/6 per doz.	Elastic Stockings, Cotton	...	2/2 each.
„ Double	...	...	20/- „	„ „ Silk	...	3/4 „
„ Single Femoral	...	...	17/- „	Suspenders, Cotton Bags	...	6/6 per doz.
„ Double	...	...	28/- „	„ Silk Bags	...	14/- „
„ Single Scrotal	...	...	34/- „	Clinical Thermometers	...	25/- „
„ Double	...	...	52/- „	Elastic Gum Catheters	...	7/6 „

TERMS—5 per cent. discount Cash: 2½ per cent. discount Monthly.



## MAXWELL'S CHLORIDE OF AMMONIUM INHALER.

The simplest and cheapest Apparatus yet introduced to the profession. Requires no strong caustic or acid liquids. Fumes are invariably neutral.

Retails for 4s. 6d.

To be had of all Chemists and Sundriesmen, and of the Proprietors—

**ANDERSON & ADAMS**

68 GRAFTON STREET, DUBLIN.

LYNCH & CO., London Agents.

Patented in Great Britain and America.

SEASON 1890-1.



# CHEST PROTECTORS.

In SCARLET, WHITE, PINE, & NATURAL FELT. In CHAMOIS LEATHER and FLANNEL, and in PINE FELT LINED WITH PERFORATED CHAMOIS.

WHOLESALE AND EXPORT ONLY OF  
**SOLPORT BROS.**  
 68 Shaftesbury Street,  
 New North Road. LONDON, N.

QUOTATIONS  
 GIVEN FOR  
 ANY SIZE OR  
 PATTERN.

GOLD MEDAL AWARDED, EDINBURGH INTERNATIONAL EXHIBITION, 1890  
 No BATH ROOM or CARRIAGE is fully Equipped without

## RANKIN'S CORK MATS

Warm, Soft, and Dry, Easily Washed, Clean, and Durable.

They Prevent Chills in Bathing, and keep the feet warm and comfortable. Mr. GLADSTONE pronounced them to be very useful, and Lord SALISBURY and many of the Nobility and Gentry now use and appreciate them. They prevent cold feet in Drives in Church, in the Counting-house, in store-floored Apartments. Numerous testimonials to their usefulness in a great variety of ways. Sizes: 1 ft. square to 20x45 in. Prices: 3s. 6d., 7s. 6d., and 10s. 6d. each. Special Mats up to 21 each. Of all leading Chemists and Furnishing Houses.

CAUTION.—Each Genuine Mat branded "Rankin's Cork Mat."

WM. RANKIN & SONS, Cork Importers, GLASGOW & LISBON.



Wholesale Chemists' Agents: S. MAW, SON & THOMPSON

### NEWTON-MASON'S

Aerated or Soda-water

#### FOUNTAIN.

A splendid ornament for the centre of a Chemist's shop, 5 ft. high. Nickel or Silver plated serpent; Plate-glass. Registered Nos. 11355, 14492, and 14336.



Marble, Oak, or Mahogany, or Walnut as required.

Made either 10 in. square, or Octagon. Glasses attended to in rotation.

Prices from £15 to £20 complete.

Can be forwarded through any London House.

The top table is Plate-glass, and the second table underneath is Marble, and the outlet is Serpent, perfectly designed and chased. Can be had either Silver or Nickel Plated. It stands from 4 1/2 ft. to 5 ft. high; from 2 ft. to 2 1/2 ft. in diam. The Cylinder is made of best copper, tin-lined, and holds about 15 quarts. A great addition to a Chemist's shop, as it soon pays for itself, and then forms a regular income. Fruit Syrups of all kinds are kept on the marble to be mixed with the aerated water.

Sole Manufacturer, **A. NEWTON-MASON, CHEMIST,**  
 113 High St. West Bromwich.  
**BIRMINGHAM ENGLAND.**  
 Sole Proprietor of

**NEWTON-MASON'S**  
 Horehound & Linseed



Trade Mark.

#### LINCTUS.

Can be obtained from all London Wholesale Houses, or **A. NEWTON-MASON,**  
 113 High Street, West Bromwich,  
 Nr. BIRMINGHAM, ENGLAND.

And also of **Dr. SIME'S World-Famed**  
**PEPSINE MIXTURE.**

Trade Mark.  
**PEPSINE MIXTURE**

Can be obtained through all London Wholesale Houses, or the Proprietor,  
**A. NEWTON-MASON,**  
 113 High St., West Bromwich,  
 Nr. BIRMINGHAM, ENGLAND.

### ONE FOR THE BABY

NEWTON-MASON'S



Nickle-Plated

#### FOOD REGULATOR

The only perfect one, and is the best and cheapest in the market. Can be used for 1d. Each one is perfect in make, and, if taken in quantities, could be given away with a 1d. Leading Bottle. Advantage—you do not have to pull the feeding little fittings on to the 1d. Can be put on in a second.

Sole Manufacturer, **A. NEWTON-MASON,**  
 113 High St., West Bromwich,  
 Nr. BIRMINGHAM, ENGLAND.

P.O. or remittance must accompany each order. Or can be obtained through any London House.

**J. ROBBINS & CO.**

## METHYLENE.

Obtained by the action of Metallic Zinc on Chloroform and Alcohol.  
 Discovered to be a general Anesthetic by Dr. RICHARDSON in 1867.

Bottles, 16s.; 5-oz., 2s. 6d.; 4-oz., 1s. 6d.; 2-oz., 1s. 6d.

### OXYGEN ANÆSTHETIC ETHER.

For producing Local Anæsthesia.  
 In 2-oz., 10-oz., and 20-oz. Stopped Bottles, 2s., 4s., and 7s.

### OZONIC ETHER.

In 2-oz., 4-oz., 8-oz., and 16-oz. Stopped Bottles, 2s., 3s. 6d., 7s., and 12s.

### PEROXIDE OF HYDROGEN.

First introduced as a Medicine by Dr. RICHARDSON.

### ETHYLATE OF SODIUM

Dr. RICHARDSON's Formula, for removing Nævi, &c. In 1-oz. & 2-oz. Bottles, with elongated Stopper for applying the Caustic, 2s. 6d. & 4s. 6d.

### STYPTIC COLLOID.

For promoting the Healing of Wounds by the first intention.  
 In 2-oz. and 4-oz. Bottles, with Brush, 2s. 6d. and 4s. 6d.; 16-oz., 12s.

### CHARCOAL CAPSULES

Containing Pure Vegetable Ivory Charcoal.  
 In Boxes, 2s. 6d. each.

**147 OXFORD ST.**

# PLASTERS.

For quotations of all descriptions see Druggists' Sundries List of undersigned.

See Advertisement, page 101.

**EVANS, SONS & CO.**  
 LIVERPOOL.

LONDON:  
**EVANS, LESCHER & WEBB,**  
 60 Bartholomew Close.

CANADA:  
**EVANS AND SONS, LD.**  
 Montreal, Toronto, and Victoria,  
 British Columbia.

LIBRARY

**J. & J. SCHOENFELD FRERES,**

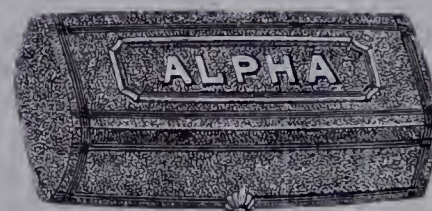
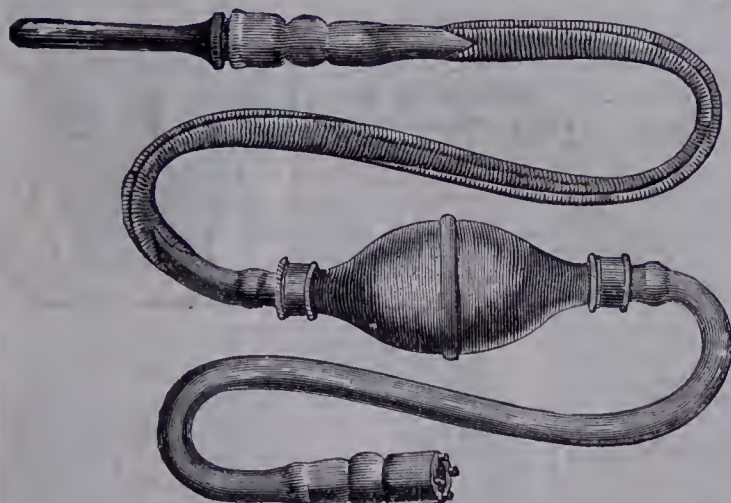
INDIARUBBER MANUFACTURERS,

68 FAUBOURG ST. MARTIN, PARIS. WORKS—AUX QUATRE CHEMINS, PANTIN.

**SURGICAL APPLIANCES,****ENEMAS, SYRINGES,**

Pure Rubber Teats and Tubing for Feeding Bottles, &amp;c.

SOLE MANUFACTURERS OF THE

**'ALPHA' CONTINUOUS-FLOW SYRINGE****(PATENTED.)**

SYRINGE IN BOX, CLOSED.

**THE FAMOUS CONTINUOUS-FLOW SYRINGE.**

The superiority of this Syringe is well known in the Trade, and is the best yet invented, being easily worked, and cannot get out of order.

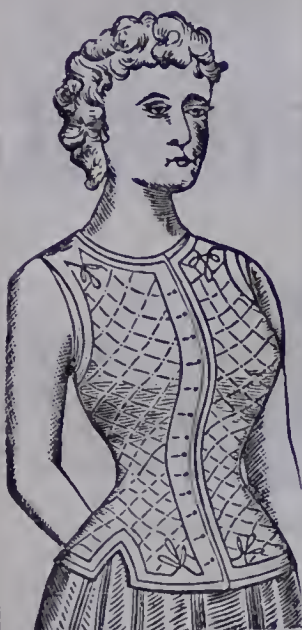
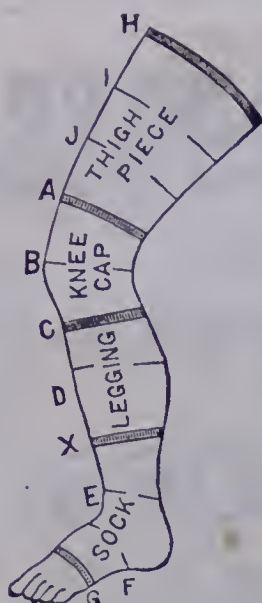
To be had from all principal Chemists and Druggists.

Our best quality Teats and Tubing and other Specialities are Vulcanised by our patent process, and we guarantee them to be far superior to any other Indiarubber Goods Vulcanised by Carbon, as they will always retain their elasticity and softness, and will withstand any climate.

ILLUSTRATED CATALOGUE AND PRICES ON APPLICATION.

Sole Agent—

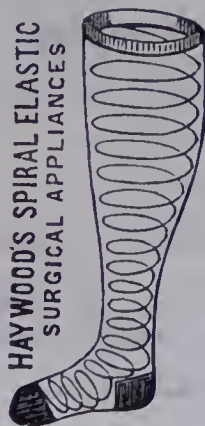
**G. V. DE LUCA,** 6 & 7 Long Lane, Aldersgate Street, **LONDON, E.C.**



Ladies' and Gents' Ventilating Bodice and Chest Protectors.

PATENT.

HAYWOOD'S SPIRAL ELASTIC SURGICAL APPLIANCES



PATENT.

## SURGICAL ELASTIC STOCKINGS AND APPLIANCES.

Merchandise Marks Act, 1887. 50 and 51 Vict., ch. 28.

*This Act is passed to enable the public to know when they have a genuine article offered to them.*  
J. H. HAYWOOD, Nottingham, manufactures appliances which he guarantees as being made from the best materials that can be purchased and of the best workmanship. His make of Surgical Stockings, &c., may be known by the letter H, woven in the top of the articles, and his Trusses, Belts, Suspenders, &c., by his monogram, as in margin, stamped on them, to imitate which renders the imitator liable to imprisonment with hard labour for a term up to two years, and the article to be forfeited. Particular attention is called to the following, most of which are Patented or Registered, and cannot be obtained from any other house.



### PATENT VENTILATING UNDERCLOTHING FOR LADIES AND GENTLEMEN.

Chest Protectors, Vests, Knee Caps, Sleeping Socks, Blankets, Skirts, Bodices, Respirators, Gout Gloves, &c., made from Pure Natural Wools, Pine Wool, and Scarlet Wool in its natural state, not woven, but enclosed in a Reticulated or Net-shaped Tissue, COMBINING WARMTH, PURITY, LIGHTNESS, and VENTILATION.

### Seamless Spiral Elastic Surgical Stockings

Patent, made from Patent Machinery, and are on an entirely different principle from those generally in use.

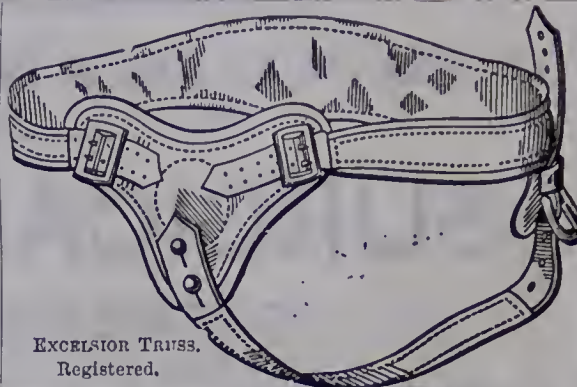
The advantages are:—1. The Indiarubber Thread being run into the Fabric in one CONTINUOUS PIECE, and no binding used, adapts itself to the shape of any leg, &c., and gives EQUAL PRESSURE throughout.

2. There are NO SEAMS to irritate the skin at the back of the leg, the HEEL, or the foot, and therefore no Binding to wear off. 3. The Indiarubber Thread being embedded in the Fabric, the surface is PERFECTLY SMOOTH on both sides, and does not mark the skin in ridges. 4. The Stockings have HEELS and TOES, if wished, so that the Appliance is kept firmly in its place. 5. They are perfectly porous, and allow the perspiration to evaporate. 6. They can be worn to take the place of ordinary Stockings, and being made from specially prepared indiarubber CAN BE WASHED, if care is used not to have the water too hot. They are made in different sizes to correspond with the old make, and in different materials, THREAD, CASHMERE WOOL, and SILK.

### EXCELSIOR TRUSS.

Registered 20384.

This TRUSS is an improved form of Moc Main. It has a Spring inside the Pad, and from its peculiar form it fits firmly on the Rupture. The Band is shaped wide and fits firmly and comfortably into the back, and will not slip down.



EXCELSIOR TRUSS.  
Registered.

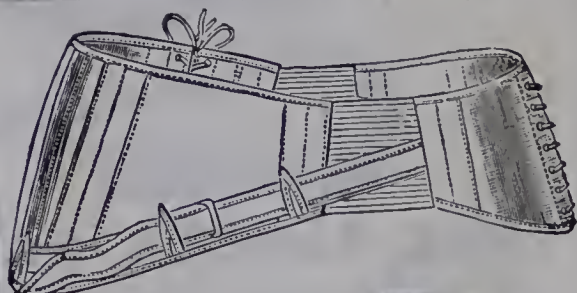
### PATENT PILE SURGICAL STOCKINGS, &c.

This Invention consists in raising a Pile or Fleece of a Velvety character upon the inside of Surgical Appliances, as Stockings, Knee Caps, Belts, Elbow and Shoulder Pieces, &c., which, lying over the Cords of Indiarubber, effectually prevents them indenting the Limb, and produces an equal and more comfortable pressure upon the swollen veins, without affecting the elasticity. In Knee Caps and other Appliances for Rheumatism, Sciatica, &c., warmth, as well as Support, is obtained; the Pile or Fleece being made from Pure Natural, Scarlet, or Pine Wool. In Belts it is a great improvement, as, besides securing warmth, if required it forms a soft surface which clings to the body and prevents rucking up and getting out of place, and does away, in most cases, with the necessity for understraps.



Ladies' Brace.—Registered.

Chest Protectors, Anti-Rheumatic Knee-caps, Shin Guards, Trusses and Belts for Bathing, Athletic Supports for Wrists, Elbows, Knees and Ankles, Stocking Suspenders, Trusses for Ruptures of all kinds, equal to any supplied in London, Paris, or New York, Ladies' and Gentlemen's Supporting Belts and Bandages. Poro Plastic Jackets and Steel Instruments for Curvature of the Spine, moulded to the Patient as in London. Splints and Instruments for Deformed Feet and Legs. Chest Expanding Braces for Stooping Shoulders and Contracted Chests. Indiarubber Appliances, Invalid Furniture, Bath Chairs, Carriages, Crutches, Ear Trumpets, Throat, Ear, and Nose Instruments, &c. Artificial Arms, Legs, &c. Strong cheap articles for working men.



Ladies' Belt.

## MAGNETIC APPLIANCES

FOR

RHEUMATISM, SCIATICA, WEAKNESS, LUMBAGO, &c.

APPLIANCES TO FIT ANY PART OF THE BODY.

Bathing Caps, Sponge Bags, Suspensory Bandages, Chest Protectors, Medical Glass, Waterproof Sheeting, Bandages, Air Cushions, Crutches, Enema Apparatus, Instruments, Indiarubber, Dress Preservers, Nursing Aprons, Spinal Supports, Log Irons, Infants' Belts, Bathing Gloves, Elastic Webs, Urinals, Druggists' Sundries.

Departmental Lists are printed of Bandages, Belts, Braces, Magnetic Appliances, Surgical Elastic Stockings, &c., Suspensory Bandages, Trusses, Chamotte Leather Articles, as Hosiery, &c., Surgical Indiarubber Sundries, Druggists' Sundries, Invalids' Winter Appliances, all or any of which will be forwarded on application, free by post.



PATENT.  
Showing the Pile lying over the indiarubber cord protecting them & forming a smooth soft surface to the limb.

J. H. HAYWOOD, Surgical Appliance Manufacturer, CASTLE GATE, NOTTINGHAM.

# HARTMANN'S

## PATENT

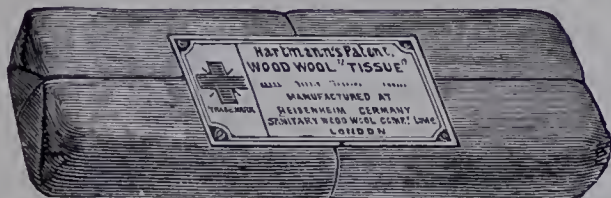
### WOOD WOOL PREPARATIONS.



#### HARTMANN'S Patent Wood Wool WADDING.

(Antiseptic) ... .. per lb. 1/9

Absolutely the most absorbent dressing made. Invaluable for Suppurating Wounds. Adopted in 150 Hospitals in the United Kingdom. Will absorb Discharges of every Description.



#### HARTMANN'S Patent Wood Wool TISSUE.

(Antiseptic) ... .. per lb. 2/-

In a continuous roll. Consisting of a layer of Wood Wool Wadding between two pieces of Sublimate Gauze. Always ready for use, and any length can be cut off with the Scissors.



#### HARTMANN'S Sanitary Wood Wool SHEETS.

(Antiseptic)

For "ACCOUCHEMENT," Bedsores, Operations, &c. "Risk of Puerperal Fever Diminished." A Great Boon for Patient, Nurse, and Physician in attendance.

In 3 sizes		24 in. by 18 in.	...	each	1/-
	26 "	20 "	...	"	1/6
	32 "	32 "	...	"	2/6

A  
GREAT  
BOON  
TO  
ACCOU-  
CHEURS  
AND  
NURSES

#### HARTMANN'S Hygienic Wood Wool DIAPERS.

(Antiseptic)

Per doz. 1/ & 2/



For Home Use, Delicate Health, for Ladies Travelling, and Accouchement they are Invaluable and Indispensable. They are Soft, Light, Antiseptic, and are supplied at the actual Cost of Washing. After use they are simply burnt.

#### HARTMANN'S Sanitary Wood Wool VACCINATION PADS.

Antiseptic, Absorbent and  
Efficacious.

Per doz. ... .. 2/-

Highly recommended by the principal Public Vaccinators



The following ADVANTAGES are claimed for this Protector—

1. It protects the arm from external violence.—2. It absorbs all discharges.—3. Most important of all, it reduces the risk of septic absorption and blood poisoning.—4. It cannot be used a second time, like ordinary "shields," which it is too often the dangerous practice to use again and again.—5. Lastly, and not its least advantage, is its extreme cheapness.

#### HARTMANN'S Patent Wood Wool GONORRHOEA BAGS.

(Antiseptic)

Per doz.... .. 1/8

The most comfortable, clean and healthful appliance ever made for this complaint. No patient should be without them. They absorb all discharge, avoid soiling clothes, and the cheap price brings them within the reach of everyone.



SPECIAL QUOTATIONS TO SHIPPERS AND THE WHOLESALE TRADE.

TO BE OBTAINED OF ANY WHOLESALE HOUSE. SHOW CARDS AND CIRCULARS PRINTED WITH CHEMIST'S NAME AND ADDRESS FREE ON APPLICATION.

THE SANITARY WOOD WOOL COMPANY, LIMITED, 11 HATTON GARDEN, LONDON.

# KILNER BROTHERS

**MANUFACTURERS**

OF

**GLASS BOTTLES**

ALL SHAPES, SIZES, AND COLOURS

FOR

**DISPENSING**

In Green and White Flint. All the required sizes in Flat, Oval, Round, Octagon, and Direct Square. The "K" Brand is well known, and is in constant and increasing demand.

## FEEDING.

**"OUR BABIES' BOTTLE."**

Fitted in a large variety of styles to suit all classes of buyers

Careful attention given to quality of Bottles and Rubber.

Increasing sales testify to the satisfaction given by these Feeders.

## MINERAL WATERS.

Codd's, Bulbs, and all the best Stoppered kinds; full size and splits.

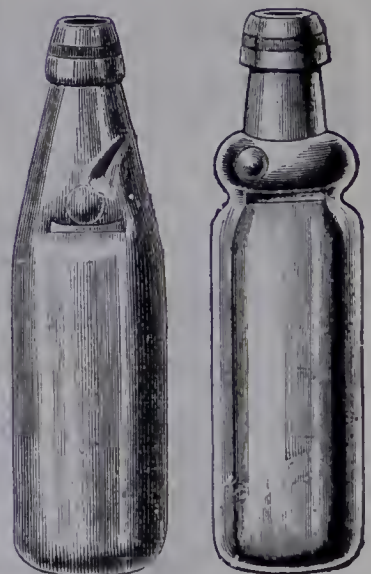
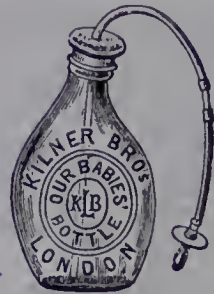
Also CORK BOTTLES to suit all tastes.

## VAN BOXES and CASES

To contain above and many other kinds of Bottles.

BUYERS ARE CORDIALLY INVITED TO CORRESPOND.

*Samples, Price Lists, and Special Quotations for large quantities sent on application.*



➡ No. 3<sup>A</sup> GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDON. ➡

# KILNER BROTHERS

SOLE ENGLISH AGENTS FOR  
**E. B. ESTES & SONS,**  
**NEW YORK.**

BOXES FOR  
PILLS, OINTMENTS,  
POWDERS, &c., &c

CASES FOR  
VIALS, SYRINGES, &c.

MENTHOL HOLDERS.

CAUSTIC HOLDERS.

SQUARE  
NESTED  
BOXES,  
&c., &c.

**WOOD BOXES**

**A NEW  
PRICE LIST**

**FULLY  
ILLUSTRATED**

And giving all particulars of  
these Goods is now in the  
Press, and will shortly be ready  
for issue.

**KILNER BROTHERS,**  
**KING'S CROSS,**  
**LONDON, N.**



**TURNED**

## ROTARY PILL MACHINES



Fig. A.

Fig. A.—This invention consists in a novel and improved arrangement of Machinery, whereby any description of Pill Mass can be converted into Pills, at the rate of from 15 lbs. to 40 lbs. per hour, according to the size of the Machine used.

Fig. A.—No. 1 .. £12 12s.  
No. 2 .. £15 15s.  
No. 3 .. £20 0s.

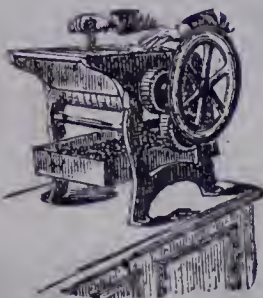


Fig. B.

Fig. B.—A small useful Machine capable of making 10 lbs. of Pills per hour, particularly adapted for persons making small quantities, at £7 15s.

Press suitable for same, £2 15s.

Any of the above can be made to cut two or three different size Pills at an additional cost for extra Rollers and Plates.

## PIPING PRESSES

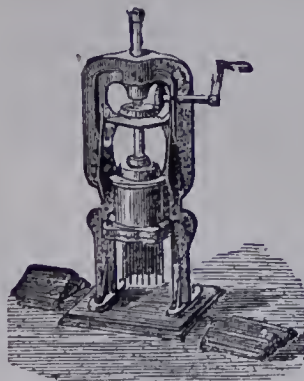


Fig. C.

Fig. C. is the Improved Press for Piping, by means of which a great quantity of Mass can be Piped in a few minutes, truer than by the old method of rolling.

No. 1 .. £3 0s.  
Fig. C.—No. 2 .. £5 10s.  
No. 3 .. £8 10s.

## J. W. PINDAR'S NEW ROTARY PILL MACHINES

*As used to this date by Messrs. Holloway, Cockle, Cox, and all the principal Pill Makers in Europe, Asia, Africa, America, and Australia.*

29 Murray St., New York,  
and Farringdon Rd.,  
London, Nov. 9th, 1880.

Mr. J. W. PINDAR,  
Dear Sir,—Your letter of Inquiry came duly to hand. As I always told you, the Pill Machine in operation at my London warehouse has given entire satisfaction. So have those we are using in this country. We can make smooth, round Pills of uniform size at a very small expense. I can safely say that your Pill Machine is all that you claim it to be—a perfect Machine.

Yours truly,  
A. J. WHITE.

224 Strand, 13th March, 1866.  
Mr. J. W. PINDAR,

Sir,—I have much pleasure in stating that the Pill Machine which you made for me answers remarkably well, as the Pills are far better made than those by hand-machines, and with much less waste. I can, therefore, confidently recommend it as a very excellent one, a great saving of labour and, consequently, expense. I remain, yours faithfully,  
THOMAS HOLLOWAY.

3 Crane Court, Fleet Street, Feb. 14th, 1871.  
To Mr. J. W. PINDAR.

Dear Sir,—We have now used your Rotary Pill Machine about six years, and find it answers better than any we had previously used, and makes the Pills of a very regular size.—Yours truly,

T. WHELPTON.



## J. W. PINDAR'S Improved Double-Action TINCTURE PRESSES

(As approved of by Wholesale Chemists.)

Superior to Hydraulic,

On account of holding the pressure.

Prices for One Gallon  
£3 10s.

For each additional  
Gallon, £1 10s. extra

Directions for use  
forwarded with each  
article.

338 Oxford St., opposite Great Portland St.,  
Feb. 11th, 1871.

Mr. J. W. PINDAR,  
Sir,—The Rotary Pill Machine and Press which we had from you (for a special order) answered very satisfactorily.—We are, Sir, yours respectfully,  
JOHN BELL & CO.

## NEW PATENT "ECCENTRIC" PILL COATER.

*Invented and made by J. W. PINDAR, Patentee.*



By an entirely new arrangement of mechanism this machine is constructed in a manner which supersedes all others, as, owing to its "Eccentric" motion, the Pills—which may be coated with Pearl, Silver, Gold, or Sugar, &c., &c.—are thoroughly separated from each other during the process, and retain their original spherical form, whilst being thrown round the receptacle with remarkable velocity.

These machines are equally adapted for coating large or small quantities; thus, a machine constructed for and suitable for coating 20 lbs. will coat 1 lb. only with equal efficacy, and in the most satisfactory manner.

Each machine is supplied with a Drug or Powder Sifter, to be attached if required, and which, fitting to top of Pill Receptacle, is subject to the same "Eccentric" motion as above mentioned.

*This addition will be found of great advantage in the Laboratory, being both efficient and compact.*

### PRICES.

No. 1.—For 2 lbs., £3 5s.;  
sifter for same, 7s. 6d.  
No. 2.—For 5 lbs., £4 15s.;  
sifter for same, 15s.  
No. 3.—For 10 lbs., £6 15s.;  
sifter for same, £1 5s.  
No. 4.—For 20 lbs., on Iron  
Standards, for Steam, Gas,  
or other power, £15 15s.;  
sifter for same, £2 5s.

*The smallest Machines can be worked by Steam Power at a small additional cost.*

Testimonials from all parts of the World may be seen on application to

**J. W. PINDAR, 75 New Church Rd., Camberwell, LONDON.**



# R. H. BARRETT,

Flint Glass Bottle Works,  
THE OVAL, CAMBRIDGE HEATH, LONDON, E.

## THE HEART SCENT BOTTLE (Reg.), for Salts or Perfume.

Is most admirably adapted for pocket use, combining great beauty of design with the maximum of convenience.

Price, Plain or Fluted (in 5 GROSS lots) :—12/6 per gross. Assorted WHITE and COLOURED.  
N.B.—The Caps for these will be fitted, if desired, with indestructible washers, to resist the action of ammonia, which destroys cork in a short time.

METAL SCREW-CAPPED LIMES, in White Flint, Actinic Green, or Amber  
The Best Bottle for Glycerine or Pills. Prices : 1 oz. 13/6, 2 oz. 15/-, 3 oz. 18/-, &c. per gross

Chemists' and Perfumers' Bottles in great variety, Plain or Stoppered.

Orders may be sent to the PRINCIPAL WHOLESALE HOUSES.

TELEGRAPHIC ADDRESS—"FOREFRONT LONDON."



# R. H. BARRETT,

Flint Glass Bottle Works,  
THE OVAL, CAMBRIDGE HEATH, LONDON, E.

For Beauty, Cheapness, and Efficiency R. H. BARRETT'S

## WATCH SMELLING-SALT BOTTLES

EXCEL ALL OTHERS IN THE MARKET.

The Caps are all fitted with INDESTRUCTIBLE WASHERS, to resist the action of Ammonia and retain the strength of the Salts.

Price, assorted white and coloured, 10/6 per gross (in 5-gross lots).

Chemists' and Perfumers' Bottles in great variety, Plain or Stoppered

Telegraphic Address—"FOREFRONT LONDON."

[1]

# R. H. BARRETT'S NEW PATENT BOTTLE

THE ONLY REALLY PERFECT CAPPED BOTTLE

FOR VASELINE, POMADE, DRY POWDERS, &c.

PRICES (in 5-Gross Lots):—

Fitted with STRONG METAL CAPS, CORK-LINED; in various colours, very attractive in appearance :—1 oz. 12/6; 1½ oz. 13/6; 2 oz. 14/6; 3 oz. 16/; 4 oz. 18/ per gross, &c.

Fitted with best BOXWOOD CAPS:—1 oz. 15/6; 1½ oz. 16/6; 2 oz. 17/6; 3 oz. 21/6; 4 oz. 24/6 per gross.

Chemists' and Perfumers' Bottles in great variety, Plain or Stoppered. Orders may be sent to the PRINCIPAL WHOLESALE HOUSES.

# R. H. BARRETT,

FLINT GLASS BOTTLE WORKS,  
THE OVAL, CAMBRIDGE HEATH, LONDON, E.

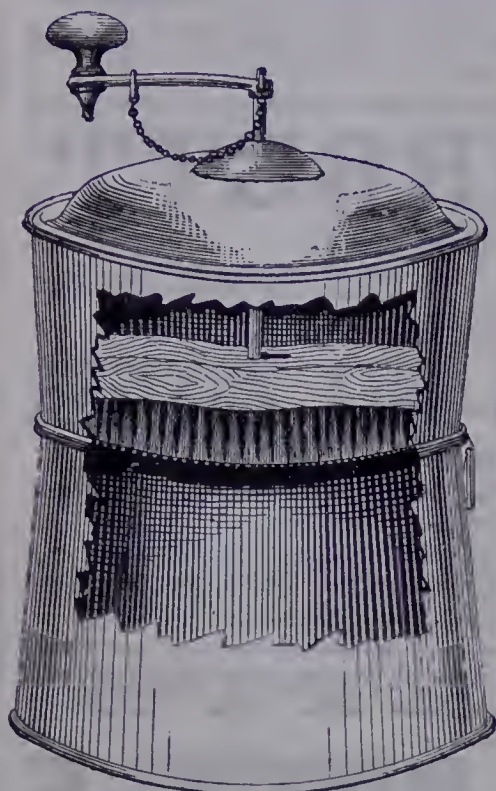
Telegraphic Address—"FOREFRONT LONDON."

# WILLIAM TOOGOOD'S

## WAREHOUSE AND SHOW ROOM,

### BURLINGTON BUILDINGS,

### HEDDON STREET, REGENT STREET, LONDON, W.



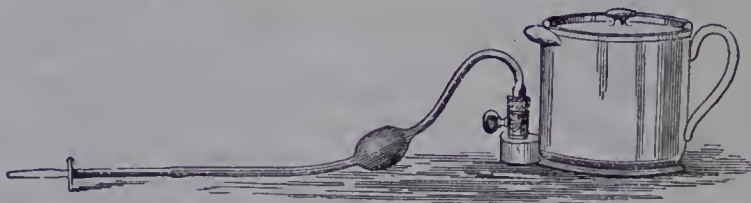
### TOOGOOD'S BRUSH MIXING MACHINE.

To mix 3 lbs. Powder ... .. 12/- each.  
 To mix 1 lb.       ,,       ... .. 8/- each.

All stock Machines are fitted with Sieves 60-mesh, but any other sizes can be supplied at same price.

### CROSSE'S SAFETY ENEMA PAN.

REGISTERED No. 138,518.



#### PRICES:

In White Earthenware ... .. 4/- each.  
 In Stoneware ... .. 2/3 each.

# THE LACTOTHERME

(Registered Trade Mark), Patented; or,

## INFANT'S PORTABLE FOOD STOVE.

THE BEST MEANS OF HEATING CHILDREN'S MILK.

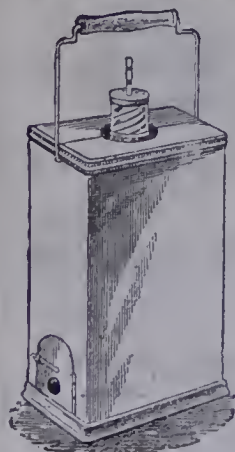
MAINTAINS A TEMPERATURE OF 98° F. SIX TO SEVEN HOURS.

DOES NOT CAUSE THE MILK TO TURN SOUR.

DESCRIPTIVE PAMPHLET POST FREE.

Prices: 6/-, 8/6, 10/- each.

[1]



Colonial and Foreign Enquiries and Correspondence solicited.

ESTABLISHED 1869.

THE

Telegrams— "DELUCA LONDON."

# FRENCH FLINT GLASS BOTTLE CO.

G. V. DE LUCA.

PARIS—11<sup>BIS</sup> RUE ELZEVIR.

LONDON—6 AND 7 LONG LANE, E.C.

## SPECIALITIES.



Feeding Bottles with Glass Screw Stoppers.

Boat-shape Feeding Bottles with the "Safety" registered stoppers.

Glass Tubes for Feeding Bottles.

Cannon Essence Bottles.

Limes and Kalis.

Plug-stoppered Ovals for Lavender Water, &c.

Opal Pomades, with red celluloid caps.

Largest assortment of Perfumery Bottles, plain and stoppered.

Mexican Flats, white flint and white and blue opal.

Bottles, Pots, &c., with pure tin screw capsules.

Glass Tubing for Syringes.

Eau de Cologne Bottles of all sizes.

Eau de Cologne Bottles, wickered.

Castor Oil Bottles, white and blue.

Oldham's Flat Essence Bottles.

Quinine Bottles, &c., &c.

Bottles of every description for Chemists and Druggists.

Confectionery Bottles and Pots in great variety, plain and stoppered.

Bottles for Preserves.

Fruit and Syrup Bottles.

Flasks with Screw Metal Capsules.

Honey Jars with Pure Tin Capsules, all sizes.

Confectionery Show Jars.

Tabloid Bottles with metal screw capsules.

Tooth-paste Pots, glass covers, white and blue opal.

Lundborg's Square-shape Perfume Bottles, plain and stoppered.

Brilliantine Bottles, plain and stoppered.

Magnesias, dark blue, 6-oz. and 8-oz.

Double-shouldered Pomades.

Pomades with Glass Covers.

Flats and Ovals in white and green glass.

Toilet Vinegar Bottles, plug-stoppered, &c., &c.



Largest assortment of Bottles, &c., suitable for all preparations.

The French Flint Glass Bottle Company beg to inform the trade that they have the pleasure of supplying the leading houses in France, and samples may be seen at their address. Any kind of bottles made to order. Prices on application. Every attention is paid to the quality of bottles and promptness of delivery.

Stocks kept in London of most leading Bottles and Screw Capsuled Goods, &c.

PRICE LIST ON APPLICATION.

Colonial firms are requested to forward orders through their London houses, if any, or London reference with order.

6 & 7 LONG LANE, ALDERSGATE ST., LONDON, E.C.

## MANUFACTORY.

"Eclipse" Glass Works,  
Lea Bridge, Clapton, London, E.

Prize Medal, Adelaide Exhibition, 1887.  
Award of Merit, Melbourne, 1888.

## OFFICES AND WAREHOUSES:

881-3 KINGSLAND ROAD,  
LONDON, E.

# E. A. HEARN & CO.

## WHOLESALE AND EXPORT GLASS BOTTLE MANUFACTURERS.

Makers of EVERY DESCRIPTION of Glass Bottles, either PLAIN or STOPPERED, in

WHITE FLINT, AMBER, BLUE, MEDICAL GREEN, ACTINIC GREEN, &c. &c.  
OR ANY COLOUR MADE TO ORDER.

FEEDING BOTTLES IN ALL SHAPES,  
PLAIN NECKS OR SCREW STOPPERED.

**SPECIALITY.**—First-class Quality at Reasonable Prices.



TRADE MARK.

# DISPENSING BOTTLES.

FLATS, OVALS, & SQUARES.

Without exception the prettiest Tinted Bottles in the Market.  
Equal to the best make. Prices moderate.

**JOHNSEN & JÖRGENSEN**

5 SAVAGE GARDENS, LONDON, E.C.

OUR SPECIALITY.

**EASIEST, QUICKEST, CHEAPEST, AND BEST BLACKLEAD IN THE WORLD**

GOOD PROFIT GUARANTEED.



To prevent "cutting," and secure to all a fair profit, all the Wholesale Houses dealing in this article throughout the country have agreed with the Sole Importers to supply "Rising Sun" Stove Polish for the future at Importers' own prices.

To prevent "cutting" amongst the Retail Trade, the Importers and Wholesale Houses have entered into an arrangement to supply only those who agree not to retail "Rising Sun" Stove Polish under fixed prices, which leave a good margin of profit.

CONDITIONS OF SALE and Prices on application to the SOLE IMPORTERS.

C. CHANCELLOR & CO., 3 Charterhouse Buildings, LONDON, E.C.

**GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD.**

## JOHN OAKLEY & SONS,

MANUFACTURERS OF

Glass and Flint Paper, Emery and Glass Cloth; Emery, Black Lead, Emery Wheels  
Pumice, Putty Powder, Crocus, Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish  
Furniture Polish, Knife Boards, Brunswick and Berlin Black, &c.

## OAKLEY'S WELLINGTON KNIFE POLISH

Prepared expressly for Oakley's and other Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines,  
Sold in Canisters with perforated Tops to prevent waste, at 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

## OAKLEY'S NON-MERCURIAL SILVERSMITH'S SOAP,

For Cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6d. each.

## OAKLEY'S "POLYBRILLIANT" (REGISTERED).

A Magic Pomade for Cleaning Brass, Copper, Tin, Pewter, Britannia Metal, &c. Never becomes dry and hard like other Metal Paste  
Tins 1d., 2d., 3d., and 6d. each.

## WELLINGTON BLOCK BLACK LEAD,

In 1d., 2d., and 4d. Blocks, and 1s. Boxes.

**WELLINGTON EMERY & BLACK LEAD MILLS, Westminster Bridge Road, London, S.E.**

Highest Award and Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1883. Gold Medal, Crystal Palace, 1884.

# GLASS BOTTLES.

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REVISED PRICE LIST OF MEDICALS JUST OUT, TO  
BE HAD ON APPLICATION.

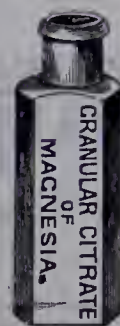
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EVERY DESCRIPTION OF  
**BOTTLES**

SUPPLIED AT THE

MOST REASONABLE PRICES.



SPECIAL QUOTATIONS TO LARGE CONSUMERS AND  
SHIPPERS.

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---

**E. YOULDON,**  
**EAST LONDON GLASS BOTTLE WAREHOUSE,**

36, 38 and 40 Great Garden Street,

Whitechapel, LONDON, E.

---

**ESTABLISHED 1840.**

---

Stores: Great Northern Railway, Royal Mint Street, E.



We beg to call your special attention to the Articles on this List, and feel sure that for equal quality the Prices cannot be beaten.

TERMS—NET CASH, MONTHLY ACCOUNT.

New Accounts must be accompanied by Remittance or London Reference.

PRICES SUBJECT TO ALTERATION WITHOUT ADVICE.

## CAMPBOR ROLLS.

Beautifully white and will not become rancid. Labels bear no name, only Brand, "The Acme."

1d. size, $\frac{1}{2}$ gross in glass-top box	...	...	5/6 gross.
--	-----	-----	------------

$$2d. \quad " \frac{1}{4} " \quad " \quad " \quad \dots \quad \dots \quad 11/ \quad "$$

# CHEMICAL FOOD.

Permanent, does not deposit.

*Elegantly Engraved Label, 6 doz. with buyer's own name.*

4 oz. bottles, by weight ... .. 2/6 per doz.

8            „            „            ...            ...            ...            4/6            „

16        „        „        ...        ...        ...        8/        „

# COD LIVER OIL.

Finest non-freezing Norwegian.

*Elegantly Engraved Label, 6 doz. with buyer's own name.*

4 oz. bottles, Imperial	...	...	...	2/6 per doz.
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8            "            "            ...            ...            ...            4/6            "

16	„	„	...	...	...	8/	„
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32 „ „ ... „ ... 13/ „

## CREAM OF GLYCERINE & CUCUMBER.

FOR CHAPS, SORE HANDS, &c.

4-oz. bottle in elegant cartoon ..... 4/6 per doz.

6 doz. with buyer's own name on cartoon.

# COLD CREAM.

Delicately perfumed, does not become rancid.

In  $\frac{1}{2}$ -oz. large-size, burnt-in pots ... .. 3/6 per doz.

## CHEST PROTECTORS.

BEST QUALITY FELT, FULL SIZE.

RED, WHITE, or PINE	Nos. 1	2	3	4	5
SINGLE ... ..	... 5/6	7/6	9/	11/3	15/ doz.
DOUBLE... ..	... 12/	16/	21/	26/	34/9 „

Perforated Chamcois Leather and Flannel at equally low quotations.

## THE "ESQUIMAUX"

## IMPROVED CHEST PROTECTOR.



This Protector possesses advantages that no other has, and will be found invaluable to invalids and delicate persons. It is light, shapely, and, being buttoned at the side, the vital parts that require keeping warm are thoroughly protected. The material is **PINE FELT**, which has been proved to be most beneficial for chest complaints.

No.	Chest Measure.	Length.	Price.
1	30 inches.	14 inches.	66/ dozen.
2	32 "	15 "	76/ "
3	34 "	16 "	85/ "
4	37 "	16½ "	96/ "
6	39 "	17½ "	108/ "

# HOCKIN, WILSON & CO.,

Respectfully solicit a visit to their show rooms, where many novelties may be seen, and special prices will be given to large buyers.

## GLYCERINE JELLY.

WHITE and RED.

Delicately Perfumed. Plain Labels.

3d., 1 oz., Nickel screw-capped bottles ... 1/9 per doz.

6d., 2 oz., " " " ... 3/ " "

1/, 4 oz., " " " ... 6/ " "

## MUSTARD LEAVES.

FREE FROM CAPSICINE.

1 doz. pkts. on attractive coloured Show Card ... 3/3 per doz.

## QUININE AND IRON TONIC.

Permanent and Bright.

8 oz. ... 7/ per doz.

16 oz. ... 12/ " "

6 doz. with buyer's own name on attractive Label.

## QUININE AND ORANGE WINE.

Pints, 12 to the gall. ... 8/ per doz.

6 doz. with buyer's own name on attractive Label.

## RESPIRATORS.

No. 702/c. Cork Respirators ... 5/6 per doz.

702. Perforated Silver Plated ... 7/ " "

703. Silver Plated Gauze, two thicknesses ... 10/9 " "

704. Double Plated Gauze, and perforated plate above ... 16/ " "

705. Ditto, ditto, below ... 16/ " "

706. Gold Plated Gauze and perforated plate above ... 23/ " "

707. Ditto, ditto, below ... 23/ " "

All Nos. except 702/c each in glass-top box.

**The BRONCHIAL INHALER.**  
(REGISTERED.)



**A PERFECT INHALER, EQUAL TO NELSON'S.**  
**8/6** per Dozen.  
The best and most effective small Inhaler made.

**The ACME INHALER.**



The most elegant small Inhaler made.  
**12/-** per Dozen.

**HOCKIN, WILSON & CO.,**

Wholesale Druggists, Druggists' Sundriesmen & Surgical Instrument Makers & Dealers,  
13 to 16 New Inn Yard, 186a Tottenham Court Road, LONDON, W.,

AND AT MANCHESTER.

FULL LIST OF SUNDRIES, &c., ON APPLICATION.

# "AGREED AT LAST."

THE Statuette, as drawing below, is effectively produced in Terra Cotta, the likenesses of the two great political leaders being most striking, and their expression clearly shows they have at last found a topic on which no difference of opinion can exist, viz., that "HOCKIN'S ACME CONES ARE THE BEST."

We present this striking group, which is 18 inches high, with all first orders for £2 10s. worth of our

## "ACME" BRAND PURE MENTHOL CONES

(not more than £1 in value to be taken in 1d., 2d., and 3d. Cones.)

W  
A  
R  
R  
A  
N  
T  
E  
D

### NEW PATTERNS. SPECIALLY SALEABLE.

- No.  
\*217F. Glass Show Bottle, with foot, as fig. 88, 1/8 per doz.  
\*217A. Glass Show Bottle, with foot, as fig. 161, 3/- per doz.  
\*214A. Glass Show Bottle, with foot, as fig. 161. This has a very large Cone. 4/3 per doz.  
220. Cone Shape, as fig. 203, each in slide box, 1 doz. in Outer, extra size, 4/3 per doz.  
\*221. Large Flat Draughtsman, very large Cone (120 grains), 4/9 per doz.  
222. Elegantly cut Show Glass Bottles, as fig. 222, 3 cuttings, 9/- per doz.  
224. Enamelled Tin Box, Printing on box, 30 gr. Cone, 1/6 per doz.

\* These are packed in 1-doz. Hanging Glass-fronted Boxes.



### 1d. CONES.

- No.  
219. Willow Boxes, bottle, barrel, or acorn shape, 3 doz. on card, one sort or assorted, 6/- gross.

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- 202s. Polished Willow Boxes, bullet shape, 2 doz. on card, 12/- gross.  
201s. Polished Willow Boxes, barrel shape, 2 doz. on card, 12/- gross.  
206s. Polished Willow Boxes, cone shape, 2 doz. on card, 12/- gross.

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- 207s. Polished Willow Boxes, Draughtsman shape, 18/- gross.

### 4d. CONES.

- 88g. Polished Soft Wood, pedestal shape box, 80 grain cones, 1 doz. on card, 2/9 doz.

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We only quote the most saleable patterns here. Detail of all shapes on application

For Buyers who find 50/- worth too much, we shall be glad to send with an order for 25/- an OPAL GAS GLOBE, lettered as an Advertisement for Menthol, which makes a most striking and attractive addition to a Pharmacy.

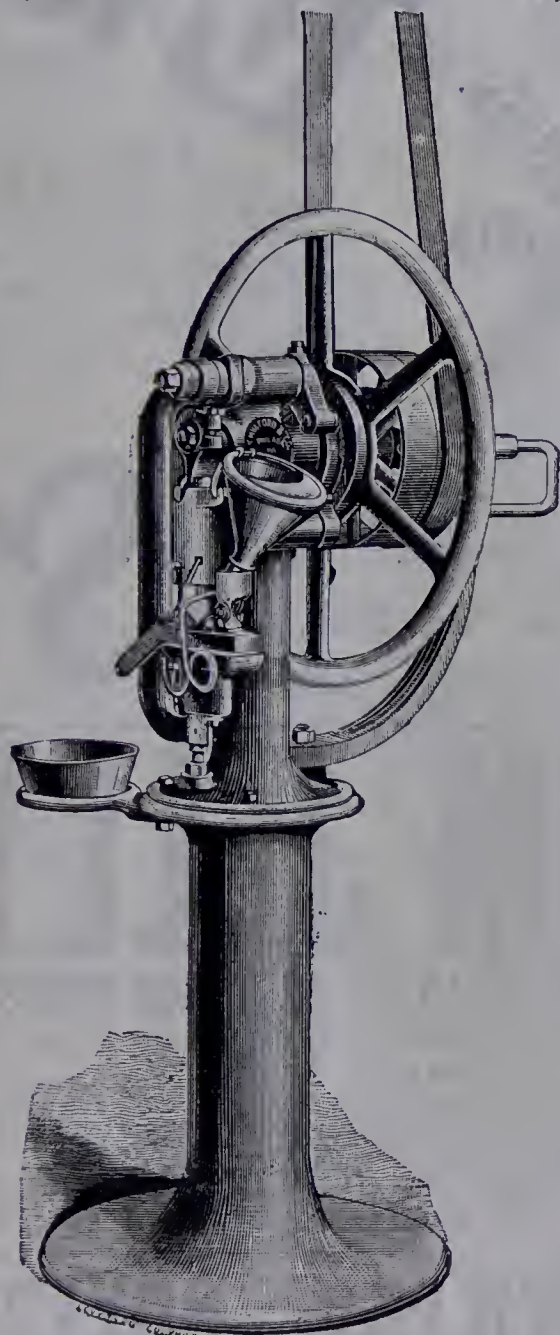
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13 to 16 NEW INN YARD, 186a TOTTENHAM COURT ROAD, LONDON, W.

CATALOGUE OF SUNDRIES AND SPECIALITIES FORWARDED ON RECEIPT OF BUSINESS CARD.

# THE "CROWN" AUTOMATIC TABLET MACHINE.

(Scale One-twelfth Real Size.)



The complete machine, for power, weighs 325 lbs.; height 5 ft. 6 in., supplied with four sets of dies and punches, tight and loose pulleys and shifter.

This machine is being used by many of the largest manufacturers of compressed goods in America and Europe. It is also recommended by Prof. Remington, and used at the college for demonstrating the manufacture of compressed medicines.

FOR PRICES & TERMS APPLY TO  
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(PATENT 8525.)

The purest & cheapest.

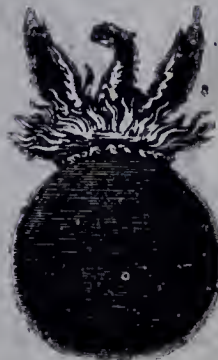
MANUFACTURED BY THE

**WARRINGTON CHEMICAL CO.**

Supplies may be obtained through the Wholesale Houses.

Sole Agent, ALFRED H. MASON, 46 Jewin Street, London, E.C.

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**BRISTOL**—Manufactories: Phoenix Wharf and Temple Gate. Offices: Temple Gate. Telegrams: "Phoenix Bristol."

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**HARD LUSTROUS ENAMEL,**  
IN ALL THE ART SHADES.

For all kinds of decoration on Wood or Iron. Dry with a surface like Porcelain. Sold in small or large Tins, or in bulk. Prices and shades on application.

**WHITE LEAD, ZINC WHITE,**  
**PAINTS & COLOURS** OF ALL KINDS.

**MIXED PAINTS READY FOR USE,**  
In Tins, 1, 2, 4, 7, and 14 lbs. each.

**HIGH-CLASS VARNISHES**

**BALL DENOTES**  
**COLOUR OF PAINT.**

Of all kinds, for Coachbuilders, Decorators, &c.  
**OIL BOILERS, REFINERS, & MERCHANT**  
Export Orders receive special and prompt attention

**Guy's**

Guy's Tonic is sold Retail at 2s. 9d. per bottle. One size only prepared. We are co-operating with Chemists and the trade generally, arranging satisfactory terms in return for general enterprise on our behalf. For terms and particulars, apply to the Proprietors—Guy's Tonic Company, 4 Ludgate Circus, London, E.C. It may also be obtained from the usual Wholesale Houses.

Dr. Andrew Wilson, F.R.S.E., writes: "As a stimulus to weak digestion, Guy's Tonic will act admirably, while in cases of painful digestion and flatulence it will prove of signal service. The merits of this preparation consist in its being compounded of ingredients which are habitually used by physicians in cases of want of tone, and in its safe and pleasant nature as a family remedy."—*Health*, August 1, 1890.

**Tonic**

## EAR SYRINGES.

For quotations of all descriptions see Druggists' Sundries List of undersigned.

See Advertisement, page 101.

**EVANS, SONS & CO.**  
LIVERPOOL

LONDON:

EVANS, LESCHER & WEBB,  
80 Bartholomew Close.

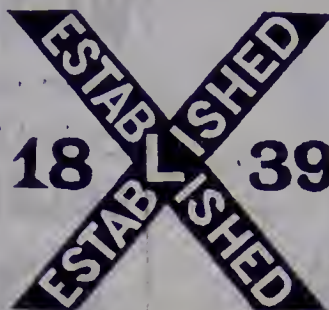
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EVANS AND SONS, LD.  
Montreal, Toronto, and Victoria,  
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## CARDBOARD

Used by  
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**ROBINSON & SONS,**

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For Pills,  
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Powder, Insect Powder,  
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Starch, Starch Gloss, Soap,  
Bottles, Syringes,  
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# PETROLEUM JELLY

**WHITE, RED, AND YELLOW—BEST AND PUREST.**

Consistency suitable for all Climates, and pronounced by the  
MEDICAL PROFESSION to be *UNSURPASSED*.



Tins of all sizes, from 1 to 10 lbs.; Iron or Wood Kegs,  $\frac{1}{4}$ ,  $\frac{1}{2}$ , and 1 cwt.; Barrels  
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## UNRIVALLED !!!

New Method for

**BOXMAKING** (Round & Square)



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CARDBOARD, PULP, &c.  
**PATENTED 1891.**

The Machines can be seen at work at  
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FULL PARTICULARS ON APPLICATION.

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LONDON:

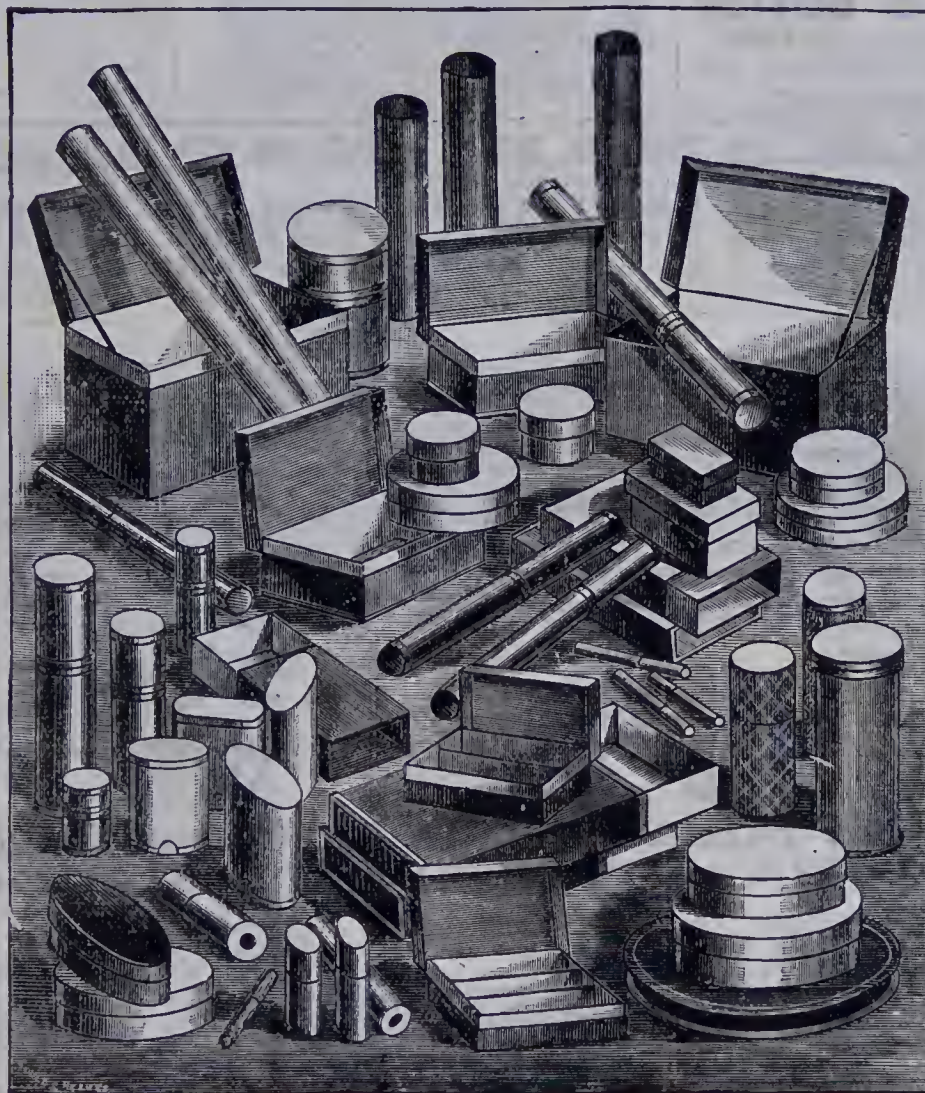
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EVANS AND SONS, LD.  
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Confectionery.  
Essential Oils.  
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ESTABLISHED OVER HALF A CENTURY.

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Office and Warehouse } 8 GREVILLE ST., HATTON GARDEN, LONDON, E.C.

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Workmanship  
and functionality  
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8 feet long by 2 feet wide .. £24  
If the Dispensing Screen only, £12

This handsome Dispensing Counter is manufactured in Spanish mahogany, and of the best workmanship, so that it will stand any climate. The counter has a solid mahogany top, and plate-glass case front. The centre part fitted to take sponge. A mahogany screen on top, consisting of two plate-glass cases, with shelves inside, and large plate-glass mirror in the centre, and three glass tablets with gold writing in ornamental mahogany carved work. The back of screen fitted with small shelves and a glass poison cupboard. The inside of counter fitted with strong counter drawers, label and cork drawer, open shelves, &c.

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GUN ST., BRUSHFIELD ST.  
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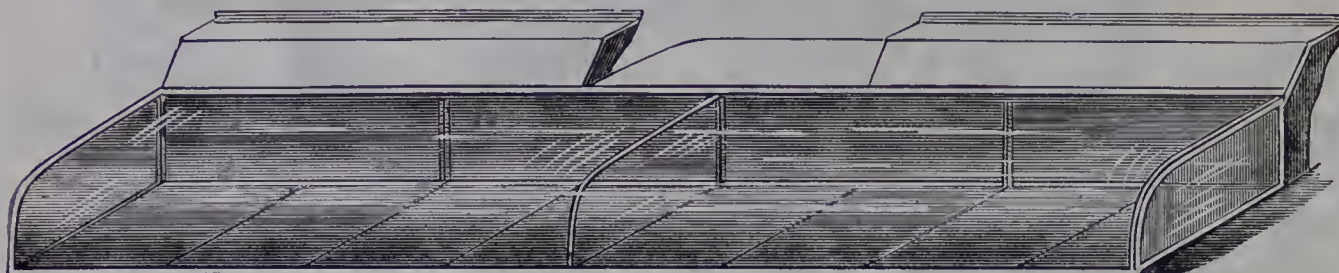
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**SHOW CASE MAKER & SHOP FITTER**

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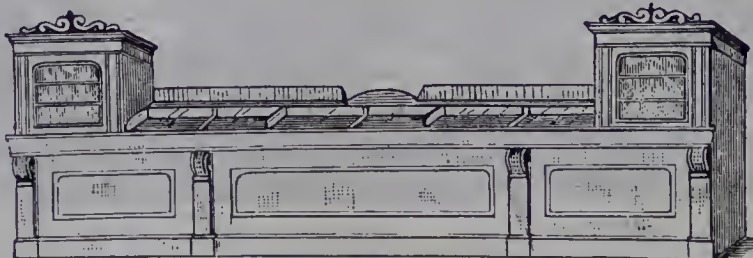
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**CHEMISTS' AND GENERAL SHOP FITTER,**  
SHOP FRONT BUILDER AND GLASS SHOWCASE MAKER,  
9 CAMDEN STREET, LIVERPOOL.

### PLANS & ESTIMATES

supplied for Work  
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### ALTERATIONS

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Estimated for.

The following are some of the Chemists' shops fitted by W. S. Y.:-

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" WARHURST (4 shops), Stanley Road, Liverpool.  
" MARTIN (2 shops), Lime Street, Liverpool.  
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" THOMAS, Lark Lane, Liverpool.  
" BLACKBURN (2 shops), Tuebrook, Liverpool.  
" BUDDEN (5 shops), Dale Street, Liverpool.  
" WOODCOCK, Scotland Road, Liverpool.  
" FLETCHER, Breck Road, Liverpool.  
" PURCELL, Walton Road, Liverpool.  
" EVANS, Elaz Bank, Liverpool.  
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" JOSEPH, Great Homer Street, Liverpool.  
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" PARRY, Stanley Road, Liverpool.  
" EDWARDS, Litherland.  
" WRIGHT, Leek.  
" THOMAS, Aberystwyth.  
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" T. MARTIN (2 shops), Waterloo.  
" EVANS, Millam, Cumberland.

Mr. BREWITT, Sandy, Bedfordshire.  
" BAKER, Chester.  
THE CHEMIST CO., Wem, Sal. p.  
Mr. BENNETT, Widnes.  
" ROSE, New Brighton.  
" CLEMENTS (2 shops), Eglington.  
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**SHOPS TO LET FOR NEW BUSINESSES.**

All kinds of Glass Work in Name Plates, Shelves, Outside Lettered Slips, &c.

# J. & W. BYGRAVE

*Shop Fitters and Show Case Makers,*

**111 SHEPHERDESS WALK, CITY ROAD, LONDON, N.**

J. & W. B. beg to bring under the notice of Chemists and Druggists their handsomely-finished Counter Show Cases, Figs. 16, 18, and 21, best make.

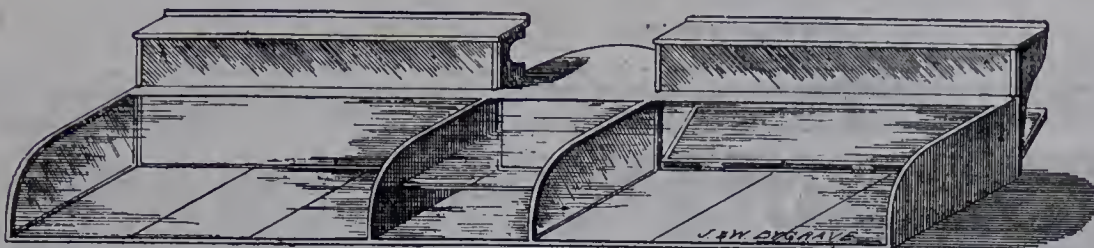


Fig. 16.—Bent Top Plate Glass Counter Show Case, in French polished mahogany or ebonized, with two upright plate-glass mirror-fronted shelves, and a flat shelf for serving over, &c.; three doors to open at back lined with plate-glass mirror, and fitted with spring fastenings. Centre division with glass shelf for tooth-brushes, &c. The inside fitted with trays, lined crimson or blue cotton velvet.

If 6 feet long, 8 inches high (total height 13 inches) ... .. £7 4s.  
Or £1 4s. per foot run for any length. 5 per cent. off for cash.

**BYGRAVE,**

SHOP FITTER,

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CITY ROAD,

LONDON, N.

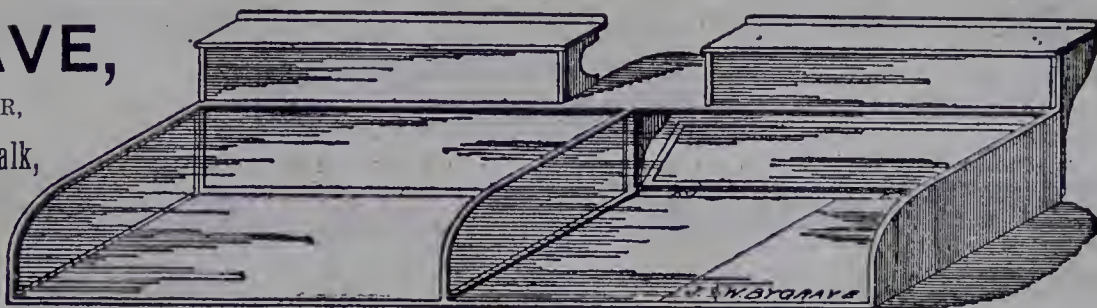


Fig. 18.—Bent Top Plate Glass Counter Show Case, in French polished mahogany, with two upright mirror plate-glass fronted shelves, table in centre for serving over, and mahogany falls at back lined with mirror plate glass, inside fitted with crimson velvet trays.

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5 per cent. off for cash.

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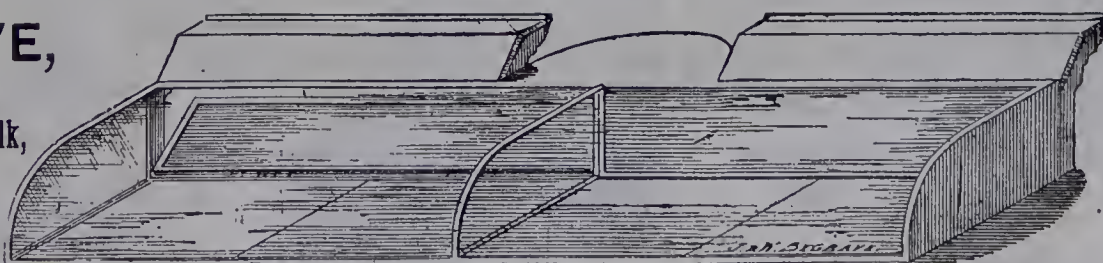


Fig. 21.—Bent Top Plate Glass Counter Show Case, in French polished mahogany, with sloping and flat shelves at each end of case, and a flat shelf in centre for serving over, &c.; doors at back lined with plate-glass mirror. The inside fitted with trays, lined crimson or blue cotton velvet.

If 5 feet long, 8 inches high (total height 13 inches) ... .. £5 0s.  
Or £1 per foot run for any length. 5 per cent. off for cash.

J. & W. B. beg to bring under the notice of Chemists and Druggists that the undermentioned Chemists' shops were fitted by J. & W. BYGRAVE, and also hundreds of other shops to whose owners we have given the greatest satisfaction to.

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MEACHER, Stroud Green Road, Ferme Park, and  
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This popular work treats of all the manipulative details involved in compounding medical prescriptions, special attention being given to dispensing difficulties. It includes particulars regarding pill excipients and pill coating, suppositories, emulsions of all kinds, mixtures, &c. There are distinct chapters on the dispensing of French, German, and Homœopathic prescriptions, and select New Remedies. The Appendix comprises French, German, and Latin vocabularies and a concise Table of Doses of Potent Medicines.

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**UNPARALLELED SALES**  
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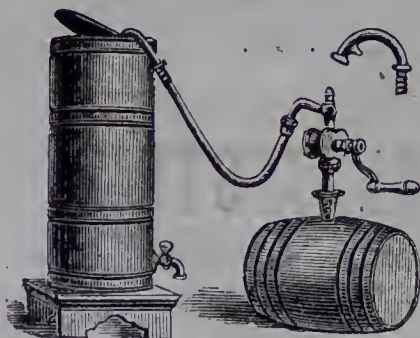


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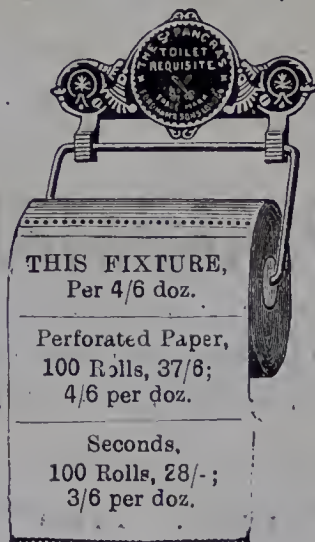
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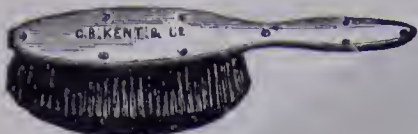
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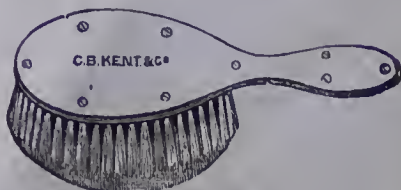
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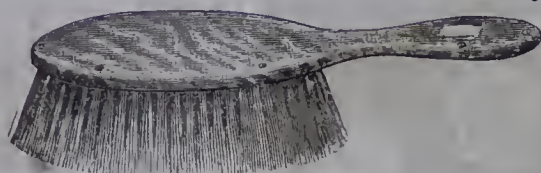
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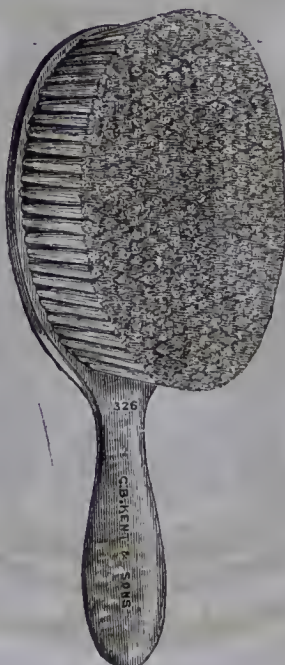
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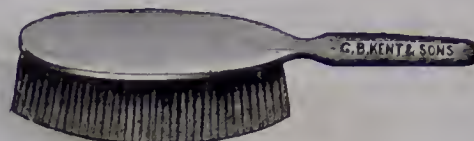
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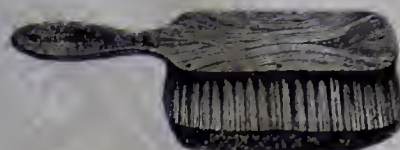
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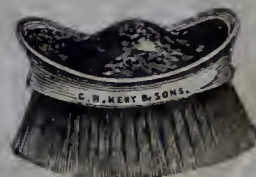
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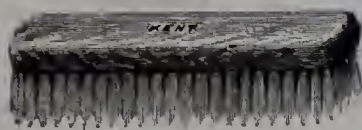
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No. 130.



No. 106.



Case empty, £1 3s. each. 29x15x12 inches.

MADE IN SATINWOOD AND SELECTED YELLOW BRISTLES.



No. 154. Closed.



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EACH BRUSH GUARANTEED PERFECT AND MANUFACTURED ON THE PREMISES.

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	In Best Selected Badger Hair .....	7s	9s	12s	12s	—	—	15s
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	In Extra Hard or Yellow, Nos. 85 and 99...	5/6	6/6	7/6	7/6	—	—	9s
EXTRA PATTERNS.	No. 131. The "Perfect Combination" .....	—	—	7/6	7/6	—	—	9s
DOUBLE BRUSHES.	No. 134. The Tooth and Palate Brush .....	—	8/6	—	10s	—	—	—
	" 135. The Tooth and Sponge on Handle .....	—	—	—	9s	—	—	—
	The Sponge only on Bone Handle .....	—	—	—	6/6	—	—	—
IVORY.	Ivory Tooth Brushes (see special Ivory List)	18s	21s	24s	30s	—	—	42s
	Refilling Ivory Tooth Brushes .....	—	—	—	3s	—	—	—
IMPROVEMENT.	Under Dr. Maury's Patent Improvement, 6d. per dozen extra on all the above.							

ALL THE ABOVE ARE G. B. KENT & SONS' "WAXED BACKED" "WIRE DRAWN," CEMENTED TOOTH BRUSHES IN THEIR SELECTED BEST QUALITY.

It is requested that all orders be permitted to be executed "assorted" as to patterns and strengths, which avoids delay and gives a good selection.

# TOOTH BRUSHES.

JAN. 31, 1891

BURROUGHS, WELLCOME & CO.

THE CHEMIST AND DRUGGIST

173

No.

# ORIZA-PERFUMES

IN LIQUID AND SOLIDIFIED FORM

OF

## L. LEGRAND

SPECIALY APPOINTED FURNISHER TO THE COURT OF RUSSIA,

### 11 PLACE DE LA MADELEINE

(REMOVED FROM 207 RUE ST. HONORÉ),

— PARIS —

## UNRIVALLED SWEET PERFUMES

FOR ALL WHO LIKE DELICATE AND CONCENTRATED SCENTS.

### PRINCIPALLY RECOMMENDED PRODUCTS:

CREME-ORIZA DE NINON: Beauty of the Complexion .....

ORIZA-POWDER: Delicious Poudre de Riz .....

ESSENCE-ORIZA: For the Handkerchief in all Perfumes

ORIZA-LACTÉ: Lotion for the Skin.....

ORIZA-OIL: Finest Perfumed Oil for the Hair .....

ORIZA-TONICA: Lotion for Cleaning the Hair .....

ORIZA-SOAP: The most Delicious for the Toilet .....

LATEST CREATION:

ORIZA-PERFUMES aux VIOLETTES DU CZAR.

INVENTOR AND SOLE PROPRIETOR OF THE

## SOLIDIFIED ORIZA-PERFUMES

(PATENTED),

12 DIFFERENT SCENTS IN THE FORM OF PASTILS AND TABLETS.

SOLE AGENTS FOR GREAT BRITAIN AND POSSESSIONS—

### SILBER & FLEMING, LD. 57 WOOD STREET, CHEAPSIDE, LONDON, E.C.

Catalogue and Price List free on application.



# A. S. LLOYD'S EUXESIS,

## FOR SHAVING WITHOUT SOAP, WATER, OR BRUSH.

### CAUTION.

The labels on genuine EUXESIS bear signature of Inventor, A. S. LLOYD, in *BLACK INK*, and the signature of his Widow, AIMEE LLOYD, in *RED INK*. Refuse all others.

Manufacturer: **AIMEE LLOYD** (WIDOW OF A. S. LLOYD, formerly of 27 GLASSHOUSE STREET)  
**3 SPUR STREET, LEICESTER SQUARE, LONDON**

N.B.—When ordering from Wholesale Houses, write "LLOYD'S EUXESIS (WIDOW'S)."



The only preparation for the Hair recommended by leading Physicians for the removal of Scurf, allaying irritation, preventing greyness and baldness, and producing a

### LUXURIANT HEAD OF HAIR.

In Bottles to retail at 1s. 8d., 2s., 2s. 8d., 3s. 8d., 5s.  
 Revised Wholesale Prices, 12s. 6d., 16s. 6d., 20s., 30s., and 42s. per dozen.  
 Supplied by all Wholesale Sundry Houses,

OR FROM THE DEPOT—

OSBORNE, GARRETT & CO., 51 Frith St., Soho, London, W.



### BAILEY'S PATENT RUBBER "COMPLEXION" BRUSH.

Retails for 3s. 6d. each.  
 Price 25s. per dozen.

Used with a little soap in the daily ablutions, the gentle friction of this brush makes the skin beautifully soft and smooth, effectually eradicating all blemishes, blotches, wrinkles, coarse lines, &c., and entirely superseding the poisonous cosmetics and face-washes now in use. It is simply invaluable for bathing the delicate skin of infants and children.

### BAILEY'S RUBBER TEETHING RING

(PATENTED)



Is perfectly tasteless, and so constructed that the flat-ended teeth serve to expand the skin of the gums, softening the latter, and thus aiding the coming tooth without irritation. It is made of pure Para Rubber, and entirely supersedes the old-fashioned and injurious articles sold for this purpose, and is highly recommended by leading Physicians and Dentists.

Retails for 5d. each.  
 Price 3s. 6d. per dozen.

We are also the Makers of BAILEY'S BATH and FLESH BRUSHES, price 42s. per dozen; RUBBER TOILET BRUSHES, prices 8s. and 17s. per dozen; and RUBBER TOOTH BRUSHES, price 6s. and 6s. 6d. per dozen.

Of all Wholesale Houses, or direct from the Manufacturers,

**DAVID OSELEY & SONS**

14 Aldermanbury Avenue, LONDON, E.C.

Ardwick MANCHESTER and 57 Miller GLASGOW.

## HAIR BRUSHES.

For quotations of all descriptions see Druggists' Sundries List of undersigned.

See Advertisement, page 101.

### EVANS, SONS & CO. LIVERPOOL.

LONDON:

CANADA:

EVANS, LESCHER & WEBB,

EVANS AND SONS, LD.

60 Bartholomew Close.

Montreal, Toronto, and Victoria,  
 British Columbia.

## DR. PAUL'S HIGH-CLASS MANICURE SPECIALITIES,

Certified as innocuous by eminent English and American Chemists.

	Retail	Wholesale
	per doz.	per doz.
<b>CERALINE.</b>		
For tinting Finger Tips, Face and Lips.....	2/6	18/-
<b>POUDRE LUSTRALE.</b>		
Gives a brilliant shell-like transparency to the Nails	2/6	18/-
<b>CRÈME CAMÉLIA.</b>		
Restores Rough and Chapped Skins to their original softness .....	2/6	18/-
<b>NAIL OLEATE.</b>		
Preserves and gives a brilliant polish to the Nails, and prevents Hangnails, &c. ....	1/6	10/6
<b>CLEANSING FLUID.</b>		
Instantly removes all stains from the surface and underneath the Nails .....	2/6	18/-
<b>FACE AND HANDS LOTION.</b>		
Softens the Skin and removes all discoloration ....	4/6	33/-
<b>EMERY BOARDS.</b>		
For bevelling the rough edges of the Nails after use of the file .....	1/-	7/-

A valuable novelty introduced in Dr. Paul's system of Manicure to apply the "Cleansing Fluid" under the free margin of Nails, and thus avoid the danger of scratching with steel instruments, 7/- per doz. bundles.

**CAUTION!**—Dr. Paul's Specialities can be obtained at all first-class Perfumers' and Chemists', but many imitations are offered at inferior Stores  
 See inset between pages 136, 137.

WHOLESALE AGENTS:

OSBORNE, GARRETT & CO., FRITH STREET, LONDON

# A. S. LLOYD'S EUXESIS,

For Shaving without Soap, Brush, or Water.

## CAUTION.

The only Genuine has a yellow label printed ONLY in Black Ink, and bears the original address of the late inventor, "27 Glasshouse Street, Regent Street," the proprietors having purchased, under an administration suit, the Secret, Trade Mark, Goodwill, and Premises.

SOLE PROPRIETORS

## R. HOVENDEN & SONS,

### LONDON.

## SALVINE,

### THE SCIENTIFIC DENTIFRICE.

OF ALL WHOLESALE HOUSES.

THE LANCET.—Extract from "ANALYTICAL RECORDS" reports:—"Salvine Dentifrice is a delicately scented paste, which exhibits an Alkaline reaction to test paper. It is perfectly free from injurious elements. From its composition it is evidently ANTACID, ASTRINGENT, and ANTI-PARASITIC. Salvine is contained in Collapsible Tubes, the use of which offers OBVIOUS ADVANTAGES."

Put up in a novel and attractive manner. Price 1/; 1/6, and 2/6.

LIBERAL TERMS.

A handsome, valuable Showcard of an exceedingly tasteful and high-class design, now ready. Transparencies and other attractive Advertising matter.

SALVINE DEPOT, 3 Oxford St., LONDON, W.

## TURNED METAL FLASK & BOTTLE CAPS

For Spirits, Oils, Perfumes,  
Salts, &c.



[2]

MANUFACTURERS:

## H. G. SANDERS & SON,

Victoria Works, Victoria Gardens, Notting Hill Gate, LONDON, W.

Established 1820. Telegraphic Address—"COLLAPSIBLE LONDON."

## CALORIFIC FLUID POMADE BOTTLES.

FOR  
Annulling Pain during the Extraction of Teeth.

Prepared by D. WHARRIE, Chemist, 50 Berry Street, Liverpool, strictly according to the Formula approved of by the late Mr. SNAPE.

This fluid is an absolutely safe local anæsthetic, which can be applied in a few seconds without inconvenience.

To be obtained at all Dental Depots, and from the Proprietor,

### D. WHARRIE, 50 BERRY ST., LIVERPOOL.

In Stoppered Bottles, with full Directions for use,  
4s. and 7s. 6d. each.

For quotations of all descriptions see Druggists' Sundries List of undersigned.

See Advertisement, page 101.

## EVANS, SONS & CO.

### LIVERPOOL.

LONDON:  
EVANS, LESCHER & WEBB,  
60 Bartholomew Close.

CANADA:  
EVANS AND SONS, LD.  
Montreal, Toronto, and Victoria  
British Columbia.

# MARVELLOUS SUCCESS.

**SALE STILL INCREASING.**

**HIGHEST AWARDS WHEREVER EXHIBITED.  
GOLD MEDAL, 1889.**

**BRONZE MEDAL, 1888.**

(HIGHEST AWARD.)

**SPECIAL AWARD, 1890.**

**SEE OPINIONS OF THE PRESS, AND TESTIMONIALS FROM ALL PARTS OF THE WORLD.**

## PETAL DUST.

The Great Floral Air Purifier  
and Everlasting Perfume.

### PRICES.

3d. Size, in Boxes containing	3 dozen	...	...	...	6s. 0d. per box	} Net
6d.       "               "	1       "	...	...	...	3s. 6d.       "	
1s.       "               "	1       "	...	...	...	7s. 0d.       "	

Order through your Wholesale House, or, CASH WITH ORDER, direct from SOLE PROPRIETORS—

**THE ROSMARINE MANUFACTURING CO., LONDON AND PHILADELPHIA.**

LONDON OFFICE—54 STAMFORD STREET, LONDON, S.E.

CITY DEPOT—H. C. QUELCH, 1 LUDGATE SQUARE, LONDON, E.C.

**Sole Agents for India—ROWE & CO., RANGOON.**

*ESSENTIAL*

**LEMON.  
BERGAMOT.**

**SANTI DE PASQUALE & FIGLI.**  
MESSINA.  
MANUFACTORIES



VIA CANTONZE    VIA VARESE

*OILS*

**ORANGE.  
MANDARINE.**

PRIZE MEDALS,  
PARIS.

**W. DRYSDALE & CO.**  
SOLE AGENTS  
8. CREECHURCH LANE. LONDON. E.C.

PHILADELPHIA.  
MELBOURNE.

**HALF A CENTURY OF SUCCESS**

THE ONLY GENUINE MINT ALCOHOL IS

**DE RICQLÈS'**  
**MINT ALCOHOL.**

Recommended by the highest Medical Authorities for Indigestion, Stomach Ache, Heartburn, and Headache. It dispels immediately all uncomfortable feeling. Indispensable during the hot weather. An excellent article for the Toilet and Teeth. A grand Preservative during periods of Epidemics.

53 AWARDS, of which 15 are Diplomas of Honour & 14 Gold Medals  
DEPOTS EVERYWHERE.

Manufactory:—Lyons (France), 9 Cours d'Herbouville  
PARIS, 41 rue Richer.

**Insist on the name De Ricqlès.**

## TOOTH BRUSHES.

For quotations of all descriptions see Druggists' Sundries List of undersigned.

See Advertisement, page 101.

**EVANS, SONS & CO.**  
**LIVERPOOL.**

LONDON:  
EVANS, LESCHER & WEBB,  
60 Bartholomew Close.

CANADA:  
EVANS AND SONS, LD.  
Montreal, Toronto; and Victoria,  
British Columbia.

# ENORMOUS PROFITS TO RETAILERS!

Please do not overlook  
**THE "INSET,"**

Between] pages 32 & 33.

And read carefully the Notice on back of same.



## H. HAENSEL'S OLEA AETHERIA SINE TERPENO

Oils of Lemon, Orange, Angelica, Aniseed, Bergamot,  
Cassia, Caraway, Cloves, Peppermint, Juniper,  
Curaçao, &c.

### TERPENELESS AND CONCENTRATED

Of extraordinary strength and solubility, remarkably mild  
and pleasant taste, and fine bouquet.

SOLE AGENT FOR THE UNITED KINGDOM,  
**WILLIAM POPPELREUTER, MANCHESTER**

## OKELL'S ORIGINAL MONA BOUQUET

Retail, 1/, 1/8, & 3/8; Wholesale, 7/12, & 22/6 per doz.

This much-admired Perfume (first introduced by the late Joseph Okell)  
may be obtained from the leading Patent Medicine Houses, Wholesale  
Druggists, and Druggists' Sundry Dealers.

Sole Consignee—**THOMAS WEST, 59 and 61 Chester  
Road, Stretford, Lancashire.**

Special Agents—**B. G. LENNON & CO., London, and Port Elizabeth  
Cape Town, and East London, South Africa.**

# S. SAINSBURY'S LAVENDER WATER.

A highly-perfumed Scent of great refinement, prepared from **ENGLISH  
LAVENDER FLOWERS**, and most choice and delicate scents.

*The strength and lasting quality of this Perfume render it very economical in use.*

Prices : 1s., 1s. 6d., 2s., 3s., 4s. 6d., and 6s.

ALSO IN VERY NEAT CASES SUITABLE FOR PRESENTS.

**ESTABLISHED 1839.**

For Wholesale and Shipping Terms apply to

**S. SAINSBURY, 176 & 177 STRAND, LONDON.**





## LETTERS TO BE ADDRESSED,

GENTLEMEN,

The Postmaster General's attention has been called to a letter passing through the post, bearing on the left-hand corner of the envelope one of your advertisements, in the shape of an adhesive label with perforated edges, of the size and somewhat resembling a postage stamp.

I have, therefore, to call your attention to the provisions of the Post Office (Protection) Act, 1884, which imposes penalties on persons making on, or issuing, or sending by post or otherwise, envelopes, &c., bearing stamps or marks in imitation or similar to those used for postal purposes.

I have to point out that the use of the label in question is calculated to embarrass and cause inconvenience to the officers of the Department in dealing with the public correspondence, and may lead to the letters bearing them being charged with postage, or to the postage upon such letters being lost to the Department.

I have, therefore, to request that you will at once discontinue the use of the label in question, and inform me of your having done so.

[Messrs. Oscar Sutton &amp; Co., Preston.]

*The Solicitor,  
Solicitor's Department,  
General Post Office, London,  
December 18, 1890.*

I am, Gentlemen, Your obedient Servant,

ROBERT HUNTER.

SIR,

*Preston, December 19, 1890.*

We beg to acknowledge the receipt of your letter of the 18th inst., calling our attention to the provisions of the Post Office (Protection) Act, 1884, of which we now hear for the first time. As you request, we write to say that we will at once discontinue the use of the advertisement labels on envelopes sent through the post in the manner to which you object, and will cease to supply our customers with any more.

These we will warn where possible, but for a time a few envelopes may circulate in a manner beyond our control. We beg to submit a sample of envelope and label, and beg to know if in this form there would be any objection to their use.

[The Solicitor, G. P. O., London.]

We are, Your obedient Servants,  
OSCAR SUTTON & CO.

## LETTERS TO BE ADDRESSED,

GENTLEMEN,

Your letter of the 19th inst. has been submitted to the Postmaster General, and I am instructed to inform you that no objection will be offered to your using the label in question at the back of the envelope provided the label be:—

- (1) Unperforated at the edges,
- (2) Circular, like the label on a reel of cotton,
- (3) Of a different colour from postage stamps.

[Messrs. Oscar Sutton &amp; Co., Preston.]

I am, Gentlemen, Your obedient Servant,

ROBERT HUNTER.

# FLINTOFF'S DENTAL DYNAMITE

(REGISTERED).

This preparation is for the cure of Toothache only, and if properly applied, cannot fail to give relief. It is also a good temporary filling, and after its use for a short time can be replaced with a permanent stopping BY ANY DENTIST.

SOLD AT 1s. 1½d.

Address—HILL HOUSE, ALNWICK.

## EWEN'S LARD

IS

## GUARANTEED PURE.

EVERY GENUINE PACKAGE BEARS THEIR LABEL  
Trade Mark.



EWEN'S

Clarified Fat Works,  
Perfumery and

Toilet Soap Factory,

5 HATFIELD STREET, LONDON, S.E.



Facsimile of Label.

# DENTAKON

For Cleaning

## ARTIFICIAL TEETH,

EITHER

Gold, Platinum, or Vulcanite,  
Deodorizing, Disinfecting, removing Grease, keeping them Bright and Clean as when new.

ALL WEARERS SHOULD TRY IT.  
Recommended by many eminent Dentists.  
In Boxes, 1s. 6d., through any Chemist, or Post free from Maker,

C. LOWE, Chemist, Surbiton, S.W.

# PERFUMERY

For quotations of all descriptions see Druggists' Sundries List of undersigned.

See Advertisement, page 101.

## EVANS, SONS & CO. LIVERPOOL.

LONDON:

EVANS, LESCHER & WEBB,  
60 Bartholomew Close.

CANADA:

EVANS AND SONS, LD.  
Montreal, Toronto, and Victoria  
British Columbia.

REGISTERED

**'LUCILLINE'**

[REGISTERED]

Owing to its **HIGH MELTING POINT** it is specially suitable

**"A A" BRAND.**

Highly refined and prepared for Toilet purposes. Invaluable for burns, cuts, wounds, &c. In elegantly decorated tins, 2, 4, 8, and 16 oz., and larger sizes.

**"A" BRAND.**

Less highly refined than "A A." Used as a base for Pomades, Ointments, Harness Compositions, &c.

**"B" BRAND.**

A useful brand where a cheaper quality than "A" is required.



FOR EXPORT, and is ready to use for Ointments.

**"C" VETERINARY BRAND.**

*For the treatment of Wounds, Sores, Sprains, and all Skin Affections of Live Stock.*

**NOTE.**—B and C brands are also largely used as lubricants, for the preservation from rust of bright metal surfaces, and for keeping harness, &c., in good condition.

**SIZES—**

1, 5, and 10 lb. tins.  
25 and 50 lb. pails.  
200 lb. and 350 lb. barrels.

**LUCILLINE ANALYSED.**

**CHAS. R. C. TICHBORNE, ESQ., LL.D., L.R.C.S.I., L.A.H.I., F.I.C.**

Lecturer on Chemistry at Carmichael College of Medicine, Dublin, and  
Chemist to the Apothecaries' Hall of Ireland, reports as follows:—

"Sample Lucilline 'A A' Brand. Specific Gravity .855 at fusing-point (110° Fahr.). Has a soft, uniform consistency, suitable for making ointments, and as the fusing-point is rather high, this consistence is of a more permanent character than it would be with a paraffine of a lower melting-point. Water boiled with Lucilline for some considerable time gave neither an acid nor an alkaline reaction, and this water on evaporation gave no appreciable residue."

**AN IMPORTANT TEST.**

"It was also without action upon potassium permanganate, showing its freedom from oxidisable product."

"Lucilline fulfils all the requirements of a good excipient for medicinal purposes. It is perfectly neutral, odourless even when warmed, and is uniformly smooth in texture. It is unoxidisable and non-irritant."

Prices and Samples upon application to

**HATRICK & CO., LIM., SOLE CONSIGNEES, 31 SNOW HILL, LONDON, E.C.**

# THE "STIPENDUM" STOPPER CO., LIM.

47 LAMB'S CONDUIT STREET, LONDON, W.C.,

Manufacture the following Specialties—

- "STIPENDUM" CORK STOPPERS, in all sizes.
- "STIPENDUM" CORK-LINED CAPS, for Pomade Bottles.
- "STIPENDUM" SCREW CAPS, for Pomade Bottles.
- "STIPENDUM" OPENERS, for Stoppered Aërated Water Bottles.

## "STIPENDUM" GREASE-PROOF COVERED POTS IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly fitting lids, are practically unbreakable, and the only article really answering the purpose intended.

*The following Analytical Report should be noted by the trade:—*

London, January 5, 1891.

"We have examined the two covered pots marked November 21, 1890, one containing strong nitrate of mercury ointment, and the other iodine ointment, the object being to discover—(1) Whether the ingredients of which the pots are composed have in any way affected the ointments; (2) Whether the pots have been deteriorated by the action of the ointments.



We hereby certify that no trace of any of the ingredients of the pot can be discovered in either of the ointments, and further that the pots themselves were found not to have been acted on at all; and we further consider 'Stipendum' admirably adapted for such pharmaceutical preparations.

Signed, C. T. KINGZETT, F.I.C., F.C.S.

(Ex Vice-President Society of Public Analysts).

R. H. HARLAND, F.I.C., F.C.S.

(Public Analyst).

To be had of all Druggists' Sundriesmen.

Wholesale only of the Company.

# H. BROOKS, PEEL & CO.

MANUFACTURERS OF  
**COLLAPSIBLE TUBES**  
IN ALL LENGTHS & DIAMETERS.



IN PURE TIN, OR MIXED METAL.



SPRINKLERS FOR BOTTLES OF ALL SHAPES AND SIZES.  
IN PURE TIN, PLAIN OR GILT.

## COLLAPSIBLE TUBES AND "SPRINKLERS."

For Perfumes, Artists' Colours, Soaps, Cosmetiques,  
Creams, Oils, Varnishes, &c.

H. BROOKS, PEEL & CO.

31 LYME STREET, CAMDEN TOWN, N.W.

Manufactory—BARTHOLOMEW ROAD, N.W.

# COOK'S ANTISEPTIC SOAP

(THOMSON'S PATENT).

---

A most carefully conducted set of experiments by eminent members of the Medical Profession has established the fact that this Soap is of the highest value in the treatment of ECZEMA, RINGWORM, SCABIES, FAVUS, and other Diseases of the Skin.

It has also been tested in a Physiological Laboratory as a germ destroyer, and proved to be more efficient than any other experimented with.—See "*Journal of the Society of Chemical Industry*," 1888. No. 3.

Messrs. E. COOK & CO. have received from Medical Men numerous communications testifying to the success that has attended the use of this Soap, most of which cannot be published; but Messrs. E. C. & Co. have the permission of many of the writers to show the originals to members of the Medical Profession.

---

CAN BE OBTAINED THROUGH

**MESSRS. S. MAW, SON & THOMPSON, OF LONDON,**  
OR DIRECT FROM THE MAKERS.

---

Price, in 3-tablet Boxes, per doz., 12/, Selling Price, 1/6; in  $\frac{1}{4}$ -gross Boxes, 10/6 per box.

*Messrs. E. COOK & CO. will, with pleasure, send sample, free of charge, to Medical Men on application.*

---

Manufactured by **EDWARD COOK & CO., LONDON**, Makers of COOK'S Celebrated GOLD MEDAL PRIMROSE, MOTTLED, & SOFT SOAPS; also of COOK'S LIGHTNING CLEANSER, and COOK'S HIGH-CLASS TOILET SOAPS.

*Speciality*—**SAVON DE LUXE.**

---

**GOLD MEDAL, PARIS EXHIBITION, 1889.**

# KEEP YOUR HAIR ON!

"KEEP your Hair On" is excellent advice—advice which most people are willing to accept; but, unfortunately, it is advice which everybody (who are ignorant of nature's great remedy, "ROSMARINE,") cannot act upon. Some Hair will not be kept on, but persists in coming off—hence the little bald spots, and big bald places, that one looks down upon from the upper regions of a theatre or a church.

Some people look nice bald, others don't. Those who prefer not to try how they would look bald, and those who wish to have their own luxuriant Hair

## "CALLED BACK,"

Should use the great and certain remedy, "ROSMARINE," which quickly restores grey or faded Hair, and a re-growth where the Hair is thinning away and baldness apprehended.

"ROSMARINE" is prepared from a natural product of the earth, containing the elements required by the Hair to feed upon. It is perfectly harmless, and the most scientific combination ever brought before the Public. It DOES NOT contain a particle of LEAD, SILVER, SULPHUR, or other deleterious drug or chemical, nor does it generate heat and destroy the Hair; but is a cooling and refreshing application. Ladies who have used it for years say it is the best dressing ever introduced. It performs what others only claim for their preparations—it Restores Hair on Bald Places, Removes Dandruff, Cleans the Scalp, and keeps it in a perfectly healthy state. It prevents the Hair from falling off or turning grey, and quickly restores it to its natural colour and beauty.

*May be had from any Chemist, with full directions, price 1/6.*

WHOLESALE FROM

## THE ROSMARINE MANUFACTURING CO.

54 STAMFORD STREET, LONDON, S.E., AND PHILADELPHIA, PA.

City Depot: HENRY C. QUELCH, LUDGATE SQUARE, LONDON, E.C.

## WE MAKE FOR THE TRADE

"PRIVATE BRANDS"

OF

## SUPERFATTED & DE-HYDRATED TOILET SOAPS.

(ACCORDING TO DR. UNNA'S SUGGESTION.)

Steam Works:—

34 VERULAM STREET, HOLBORN, LONDON, E.C.

## H. BRONNLEY & CO.

LARGEST TOOTH SOAP COMPRESSERS IN THE WORLD.

ESSENTIAL OILS  
DRUGS  
CHEMICALS  
PERFUMERY  
FRUIT ESSENCES

"THE  
SCENT OF THE LILIES"

(Registered),

AND

"THE SCENT OF THE HAYFIELDS"

(Registered).

These delicious Perfumes should  
be stocked by every Chemist  
throughout the world.

Our new Show Card, "The Fairy Dance,"  
Now Ready, and will be sent free  
to any Chemist on applica-  
tion.

SEND FOR PRICE LISTS.  
SAMPLES FREE.

**G. VOGT & CO.**

19 Laurence Pountney Lane,  
CANNON STREET, LONDON, E.C.

TELEGRAMS:-

"ALSACE LONDON."

GENUINE  
**DALMATIAN  
INSECT POWDER**

FROM CLOSED FLOWERS.

Buy now at Winter  
Prices.

A GALLON OF  
DISINFECTANT FOR 2d.!

**EUCALYPTUS  
TABLETS**

(PATENT 4397.)

Special Offer: In order that every Chemist  
may see for himself this wonderful Line, we  
will send  $\frac{1}{2}$ -gross 2d. size and  $\frac{1}{3}$ -gross 1d.  
size with Show Card and Handbills  
Carriage Paid in the United King-  
dom on receipt of Postal  
Order for 12/-.

# ENGLISH "SALVO PETROLIA" VERSUS AMERICAN VASELINE.

PARIS EXHIBITION, 1889,  
**GOLD MEDAL**  
AWARDED TO

# "SALVO PETROLIA"

(VASELINE).

Absolutely Genuine Paraffinum Molle of the  
very Purest Form, and we claim that it  
is superior to Vaseline.

PACKED IN TINS, 1, 5, 10, 14, 28, 56, AND 112 LBS.

# "OLEUM DEELINÆ"

(REGISTERED).

UNIVERSALLY ADOPTED BY THE MEDICAL PROFESSION FOR

OPHTHALMIA, SCURVY, RINGWORM  
ECZEMA, SKIN-DISEASES,

For External and Internal Irritation of every kind.

PACKED IN CASES—

One Doz. 1s. 6d. Bottles; One Doz. 2s. 6d. Bottles;  
or half of each.

TESTIMONIALS MAY BE HAD UPON APPLICATION.

# "Edible Salvo Petrolia"

For Public Speakers, Actors, and Singers.  
1s. 6d. per Tube.

The above are Manufactured Solely by the Proprietors,

# THE DEE OIL COMPY.

LIMITED.

Works—SALTNEY, CHESTER.

OFFICES—

LONDON—38 LEADENHALL ST., E.C.

PRICE LIST AND SAMPLES UPON APPLICATION.

# H. P. TRUEFITT'S SPECIALITIES FOR THE HAIR.

Floral Extract, 3/6, 5/-,  
10/6, 21/-

Egg Julep, 2/-, 4/-.  
CONCENTRATED

Egg Julep, 2/6,  
5/-, 10/6.

Golden Fluid,  
10/6, 21/-.

EUXURON,  
1/6.  
&c.

Stimulating Lotion, 6/-  
10/6.

Astringent and Tonic  
Lotion, 5/-, 10/6.

Quinine and Arnica

Hair Wash, 3/6,

5/-, 10/6, 21/-.

Arnica Wash,

3/6, 5/-,

10/6.

&c.

**EUCHRISMA.**  
Combines in one clear fluid every valuable  
component both of a Hair Grease and Wash,  
3/6, 5/-, 10/6, 21/-.



An elegant Preparation for  
the Hair and Beard.  
Price 2/6, 3/6, 5/-, 10/6, 21/-.

**EAU RACINE.**  
For renewing the original colour of Grey Hair;  
superior to all other restorers, being perfectly  
simple in its composition. Price 6/-.

# BRILLANTINE.

H. P. TRUEFITT'S TONIC TOOTH BRUSH

(BY ROYAL LETTERS PATENT.)

PRICE ONE SHILLING.

20 & 24 Burlington Arcade; 13 & 14 Old Bond St., London.

# LOEFLUND'S MALT AND STERILIZED MILK PRODUCTS.



LANCET.—"We have nothing but praise to  
bestow."

BRITISH MEDICAL JOURNAL.—"Pure  
Hordeum possesses all the properties  
claimed for it."

CHEMIST AND DRUGGIST.—"Pure Hor-  
deum may be relied on to contain the  
highest attainable proportion of diastase."

KINDERMILCH } Infant's

ALPINE MILK RUSKS (ground) } foods.

CREAM MILK, unsweetened, sterilized.

CREMOR HORDEATUS, delicious sub-  
stitute for Cod-liver Oil.

PURE HORDEUM (Malt Extract) } also  
with Cod-liver Oil, Hops, Iron, Lime  
Quinine, and Peppine.

MALT EXTRACT LOZENGES.

MUSTARD LEAVES, best and cheapest.

Sole Agents—ROBERT BAELEZ & CO., 14-20 St. Mary Axe, E.C.

# MENTHOL CONES.

For quotations of all descriptions see Druggists'  
Sundries List of undersigned.

See Advertisement, page 101.

# EVANS, SONS & CO.

LIVERPOOL.

LONDON:

EVANS, LESCHER & WEBB,  
60 Bartholomew Close.

CANADA:

EVANS AND SONS, LD.  
Montreal, Toronto, and Victoria,  
British Columbia.

# HENRY C. QUELCH

Manufacturers' Agent for Specialities in Druggists' Sundries and Proprietary Articles.



Gardenia Tooth Soap is now a most popular line. Most portable soap for Travellers. 6s. 6d. per dozen, on Handsome Show Card.



Price 15s. per dozen.

A Fellow of the Chemical Society writes:—

"The 'Bedford Inhaler' is the handiest and cheapest little instrument of the kind yet introduced. Simple tubular and Sponge Inhalers without steam will not always yield the medicated vapours. The 'Bedford' is the best pattern of Steam Inhaler (not Spray). The sketch does not show an important part of the instrument, which is a perpendicular air channel at the back."

"The 'Bedford Inhaler' is one of the newest of this class, and its manipulation, as will be seen from the directions on the Cut, is simply itself."—THE CHEMIST AND DRUGGIST, December 14, 1889.

## LONDON DEPOT FOR—

B. F. ATKINSON'S (New York) Bay Rum, 1/6, 6/9;

1/6, 11/6; 2/6, 18/.

BAILEY'S Concentrated Extract of Clams (*The New Food*), in pint tins, 1/6; 13/6 per dozen. *The Lancet*, of October 4, 1890, says:—"It is evidently of high food value."

KERFOOT'S Pearl Cachous, 2/9 per lb. Assorted Perfumes.

LAZELL'S Sachets, price in future, 16/ per dozen. *Always sell.*

MARRIOTT'S "Lily" Baby Comforters. All kinds.

MARRIOTT'S "Lily" Feeding Bottles, 1/8; 1/6, 12/6 per dozen.

MARRIOTT'S "Lily" Regulators (1 dozen on card), 1/9, to sell 2d. and 3d. each.

QUELCH'S Fuller's Earth, in Fancy Metal Boxes, 6d., 4/ per dozen.



popular everywhere. Burns all night and maintains the correct temperature. Supplies a long-felt want for a cheap food warmer.

PRICE 9/- per Dozen.

## THE

## "STANLEY" FOOD WARMER.

1/- — 1/-

The only Shilling Food Warmer and Night Light in the market, which keeps the Food Warm IN THE BOTTLE. Tremendous sale,

English and Foreign Agencies undertaken on most favourable terms. Special opportunities for the introduction of new goods. Correspondence solicited.

Note the Address, HENRY C. QUELCH, LUDGATE SQUARE, LUDGATE HILL, LONDON, E.C.

**NOTICE !!!—THE MOST PROFITABLE BRAND.**

**THE FIRM of MARIA CLEMENTINE MARTIN,  
NUN**

Of COLOGNE, having been Awarded the SPECIAL FIRST PRIZE MEDAL  
for their Celebrated

**EAU DE COLOGNE**

AT THE

**SYDNEY EXHIBITION, 1879,**

Have the pleasure to announce to the Public that they have also obtained the First Prize Medal at the  
**MELBOURNE EXHIBITION, 1880.**

They trust that the above distinctions conferred upon them by such expert judges will be sufficient guarantee that the Eau de Cologne of their manufacture is, without doubt, the best. They beg to append a List of Prize Medals obtained at other Exhibitions:—

LONDON, 1851.

PARIS, 1855.

RHENISH PROVINCES, 1852.

LONDON, 1862.

NEW YORK, 1853.

VIENNA 1873.

The above Firm only export to England their DOUBLE Eau de Cologne, and request their Customers, in comparing the Prices of the different Brands, to take into consideration that the bulk of those sold with the white label are single (or only half strength of the Double), which enables the Makers to sell at a low price with great profit. If they will trouble to compare the subjoined Prices with those of any firm manufacturing Eau de Cologne DOUBLE, the comparison will be greatly in favour of our Brand.

**PRICE LIST.**

	Duty Paid, Net.	In Bond.		Duty Paid, Net.	In Bond
No. 1.—Half Shorts.....	8/6	5/6	No. 4.—Long Green Flasks.....	16/-	11/-
No. 2.—Shorts.....	16/-	11/-	No. 5.—Wickered Bottles (Small)...	26/6	19/3
No. 3.—Shorts (finely Wickered) ...	21/3	16/6	No. 6.—Wickered Bottles (Medium) 53/-	...	38/6
No. 7.—Wickered Bottles (Large).....			106/- duty paid, net; 77/- in bond.		

Small Cases assorted to order (of not less than £3 value in bond) delivered free freight, less 7½ per cent. discount.

SOLE AGENTS FOR GREAT BRITAIN AND IRELAND

**C. E. MASON & CO.,**  
2 BEECH STREET, LONDON, E.C.

POSITIVELY THE BEST HAIR DRESSING.

**EDWARDS' "HARLENE"**

WORLD-RENOUNDED HAIR PRODUCER AND RESTORER.

Used by Thousands Daily. Its Superiority is Unsurpassed.

EDWARDS' "HARLENE" is now so well known to the public that it defies competition with those preparations which are foisted upon them, and which are either totally ineffective, or really dangerous, and which only hasten the decay they pretend to arrest. The effects of "HARLENE" have been proved to complete demonstration, and we hold undeniable proofs in the form of thousands of testimonials of its thorough efficacy as a **NEVER-FAILING RESTORER OF GREY HAIR** to its original colour.



FOR STRENGTHENING, BEAUTIFYING, AND IMPARTING A LOVELY FRAGRANCE TO THE HAIR.

**"HARLENE"** is a combination of substances, so judiciously blended as to afford, when absorbed by the skin, all the nutritive elements required for the growth, strengthening, and restoring of the hair.

**"HARLENE"** arrests BALDNESS, stops premature decay, revives the exhausted glands. It further has been indisputably efficacious in hastening and promoting the GROWTH OF HAIR, WHISKERS and MOUSTACHIOS. Where the hair is weak it strengthens it; where the head is bald it produces growth.

**"HARLENE"** cures weak and thin eyelashes, rapidly removes scurf and dandruff, and maintains the hair in a healthy, strong, and luxuriant condition, and its continual use in the form of a hair wash or lotion not only prevents the decay and thinning of the hair, but also losing its colour and thus becoming grey.

Physicians and Analysts pronounce it to be perfectly harmless and devoid of any Metallic or other Injurious Ingredients.

1s., 2s. 6d., 3s. 6d., and 5s. 6d. per Bottle, from Chemists, Hairdressers, and Perfumers all over the world.

PRICE LISTS AND SHOW CARDS ON APPLICATION.

Counter Bills Supplied with Name and Address of Agent.

OPAL GLASS TABLETS FIXED ON DOOR OR WINDOW FREE OF CHARGE.

MANUFACTURED ONLY BY

**EDWARDS & CO., 5 NEW OXFORD STREET, LONDON, W.C.**

## S.V.R., B.P.

We wish to draw the attention of Chemists to the excellence of the spirit we supply for pharmaceutical purposes. We have devoted great care and attention to this branch and have made it a leading line. That our efforts in this direction have been appreciated is proved by the number of unsolicited testimonials we have received from nearly every town in the country, of which the following is a specimen:—

GENTLEMEN,—

Please send 5 gall. 56 o.p. as before. I have pleasure in saying I have always found your spirit answer all tests, which is more than I can say of all I have had from different places, and also to be practically free from odour.

Messrs. Stephen Smith & Co.

The Pharmacy, Morecambe.

Yours faithfully, JOSH. N. CUTTS, B.Sc., F.C.S.

In consequence of the increase in the spirit duty our prices will be—

S.V.R. 56 o.p. ... .. 19s. 5d.

Double Distilled, 56 o.p. ... .. 19s. 9d.

CASH WITH ORDER.

REDUCTIONS FOR QUANTITIES.

### SPECIALITY FOR PERFUMERY.

This pure grain spirit, which has been thrice rectified and filtered through charcoal, is being largely used in making high-class Perfumes.

Price, 20/, 56 o.p.; 20/6, 60 o.p. Cash with Order. Reductions for Quantities.

**STEPHEN SMITH & CO., BOW, LONDON, E.**

**S V R**  
 $\frac{0}{56}$   $\frac{0}{60}$   
 19/4 19/10

SPECIAL TERMS TO LARGE BUYERS.

CASH  
WITH  
ORDER.

49 CLERKENWELL  
ROAD, LONDON, E.C.

THE  
CHEAPEST HOUSE  
FOR METHYLATED SPIRIT

TREBLY DISTILLED BY OURSELVES.

PERFECTLY PURE.

FIT FOR ANY  
PURPOSE.

ST. ANDREW'S  
DISTILLERY,



**S V M**  
 $\frac{0}{61}$   $\frac{0}{64}$

Jars, 2-gallon, 2/6; 3-gallon, 3/; 4-gallon, 4/.  
 Drums, 5-gallon, 3/6; 6-gallon, 4/; 10-gallon, 6/.

**S. V. METH.**

**JONES & COMPANY,**  
 COPPERFIELD ROAD  
 LONDON, E.

LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply METHYLATED SPIRIT in  
 5-gallon quantities at Lowest Prices.

REDUCTIONS TO LARGE BUYERS.  
 SAMPLES FREE.

**METHYLATED SPIRIT & FINISH**

Supplied of the best quality in wholesale quantities by

**J. & W. HARVEY & CO., Distillers, Yoker, GLASGOW.**

LONDON AGENTS—JAMES CHAMBERS & CO., 23 BIRCHIN LANE, CORNHILL, E.C.

**BOORD & SON,**  
 DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,  
 ALLHALLOWS' LANE, & BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for **S.V.R.** Methylated Spirit and Finish on application.  
 FINEST ORANGE WINE FOR QUININE.

# BURROUGH'S BEST METHYLATED SPIRIT

*As specially selected by City and Guilds of London Institute, for Scientific Purposes, and London School of Cookery; also by principal Metropolitan and Country Hospitals and Schools.*



FINE SHERRY  
ORANGE WINE

FOR MEDICINAL PURPOSES  
SPECIALLY PURE

**BURROUGH'S  
SPIRITS OF WINE**

**BEST METHYLATED SPIRIT**  
Spiritus Rectificatus, P.B., and duty free for Export  
Also 60 O.P. SPECIALLY ADAPTED TO USE IN THE FINEST PERFUMES  
Approved of and used by Chemists in the highest ranks of the Profession. The Best English Grain Spirit

**JAMES BURROUGH**  
CALE STREET DISTILLERY  
**CHELSEA LONDON, S.W.**

SEND FOR PRICES



**N.B. For Tinctures try my \* Quality S.V.R.**

## BURROUGH'S FINEST ORANGE WINE

PRICE ACCORDING TO QUANTITY

*One of the leading Chemists in Great Britain writes:—"Out of a number of samples of ORANGE WINE that I have examined yours is the most satisfactory. I will send orders in future to you."—Aug. 25, 1888*

# DRESSING COMBS.

For quotations of all descriptions see Druggists' Sundries List of undersigned.

See Advertisement, page 101.

## EVANS, SONS & CO. LIVERPOOL.

LONDON: CANADA:  
EVANS, LESCHER & WEBB, EVANS AND SONS, LD.  
60 Bartholomew Close. Montreal, Toronto, and Victoria,  
British Columbia.



## S. BECKETT, BARMSTON ST., HULL, IMPORTER OF STARCH, MATCHES, AND METAL POLISH.

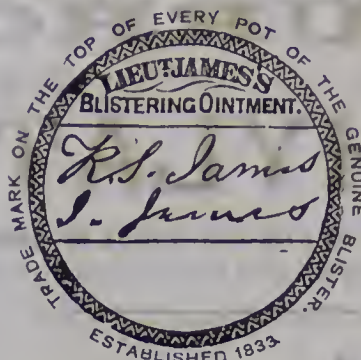
PUTZ POMADE. Samples and Prices sent on receipt of Trade Card

### FOR CLEANING PLATE

## BRADLEY & BOURDAS'S ALBATUM or WHITE ROUGE, For Cleaning Gold, Silver, and Plated Goods.

Since its introduction as a substitute for the ordinary Rouge, a quarter of a century ago, the sale has amazingly increased both at home and abroad. A trial is only needed to prove its superiority over other plate powders in use. Sold in Boxes at 1s. and 2s.; Tins, 6s. 6 Pont Street, Belgrave Square, and 48 Belgrave Road, London, S.W.

## ESTABLISHED 1833. HORSES.—LIEUT. JAMES'S BLISTER.



### CAUTION.

The annexed Label is at the top of every Pot of the ORIGINAL and only GENUINE BLISTER.

The Messrs. Barclay & Sons, 95 Farringdon Street, London, and Messrs. Raines & Co., Edinburgh, are now and have been Agents 57 years.

AGENTS:—Sutton & Co., 10 Bow Churchyard; W. Edwards & Son, 157 Queen Victoria Street; Newbery & Son, 37 Newgate Street; Evans, Lescher & Evans, Bartholomew Close; Burgoyne, Burlidges & Co., 16 Coleman Street; Lynch & Co., 171A Aldersgate Street; Southall Brothers and Barclay, Birmingham; R. Hovenden & Sons, 93 & 95 City Road, Finsbury; Sanger & Son, 150 Oxford Street; Millard & Sons, 40 Charterhouse Square; Corry & Soper, Shad Thames; A. A. Campbell, Leadenhall Street, London; Woolley, Sons & Co., 59 Market Street, Manchester; Apothecaries Company, Virginia St., Glasgow; John Thompson, 58 Lincolns Street, Liverpool; Boileau & Co., Bride Street, Dublin; McMaster & Co., 121 & 122 Capel Street, Dublin; Clarke & McMullen, Victoria Street, Belfast; D. Galbraith, Londonderry; M. C. Delaere, Pharmacie Anglaise, Bruxelles.

And by all Chemists, in Pots, 1/6, 2/9, 5/, 9/, and 16/.

COLONIAL AGENTS:—MELBOURNE and WELLINGTON: Felton Grimwade & Co.; SYDNEY, BRISBANE, and LAUNCESTON: Elliott Bros. & Co.; DUNEDIN and AUCKLAND: Kempthorne, Prosser & Co.; CALCUTTA: Smith, Stanistreet & Co.

W. H. JAMES, SOLE MANUFACTURER, FARINGDON, BERKS.  
Advertised in "Bell's Life" 54 years. Beware of Spurious Imitations.

## E. FOUGERA & CO.,

No. 30 NORTH WILLIAM STREET  
NEW YORK, U.S.A.,  
Importers of and Agents for the Principal  
FOREIGN MEDICINAL PREPARATIONS  
AND SPECIALTIES.

AGENTS AND CORRESPONDENCE SOLICITED.

ESTABLISHED  
1840.

# DAY & SONS'

AWARDED  
40  
PRIZE  
MEDALS.

## WORLD-FAMED HORSE & CATTLE MEDICINES.

LARGEST SALE IN THE WORLD.



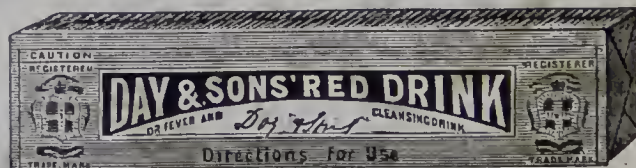
FOR Colic or Gripes in Horses and Cattle.  
FOR Debility and Chills in all Stock.  
FOR Scour in Calves and Lambs.  
FOR Hoven or Blown Cattle and Sheep.  
FOR Shivering Fits in Horses.  
FOR Weakness after Lambing or Calving.

PRICE—10/ PER HALF-DOZEN, OR 19/ PER DOZ. BOTTLES.



FOR Healing all Wounds in all Animals.  
FOR Kicks, Stake Wounds, Broken Knees in Horses.  
FOR Cracked Heels and Saddle Galls in Horses.  
FOR Sore Teats and Swollen Udders in Cows and Ewes.  
FOR Dressing and Anointing in Lambing and Calving.  
FOR Every Horse-keeper, Farmer, and Shepherd.

PRICE—2/6 PER BOTTLE.



FOR Fevers, Yellows, Indigestion, and Dulness  
FOR Red Water, Costiveness, and Mawbound.  
FOR Disordered System in Cattle.  
FOR Bad Cleansing after Calving.  
FOR Preventing Milk Fever and Inflammation.  
FOR Purifying and Increasing the Milk.

PRICE—12/ PER DOZEN PACKETS.



FOR Ill Condition, Off Appetite, Disordered System.  
FOR Heat-lumps, Itching, and Soury Skin.  
FOR Hidebound, Bad Water, and Blood Ailments.  
FOR Coughs, Colds, Sore Throats, and Fevers in Horses.

IN CANISTERS. PRICE—3/6, 7/, 14/, AND 21/.

THE "ORIGINAL" UNIVERSAL MEDICINE CHEST, £2 4s. and £5. FOR ALL DISORDERS OF HORSES, CATTLE AND SHEEP.

Only Prepared by the Inventors, DAY & SONS, Crewe, Cheshire, ENGLAND.

Exporters are invited to apply for terms. Liberal Discount offered.

## DYER'S VESICANT—HORSES

Is pronounced to be the best thing of the kind in the market for  
**CURB, SPAIN, & ALL OTHER AILMENTS**

Of the Horse's Limbs, &c

**NO HORSE NEED be FIRED if this is used.**

To be had of, or through, any Chemist in Great Britain. Prepared only by

**R. H. DYER, V.S.**

BRUNSWICK ST., LIMERICK, IRELAND,

And sold in Bottles, at 5/, 10/, 15/, 20/, post free 3d. extra.

*Full directions. A Liberal Discount to Agents.*

**Agents in England wanted. Terms on application.**

## HOUSEHOLD REQUISITES.

*For quotations of all descriptions see Druggists' Sundries List of undersigned.*

*See Advertisement, page 101.*

**EVANS, SONS & CO.**  
LIVERPOOL.

**LONDON:**

## CANADA:

EVANS, LESCHER & WEBB,  
60 Bartholomew Close.

**EVANS AND SONS, LTD.**  
Montreal, Toronto; and Victoria,  
British Columbia.

**WILKIN'S  
COMPRESSED DIP FOR  
SHEEP AND LAMBS.**

## A NEW & MOST EFFICIENT PREPARATION

**THE CHEAPEST DIP IN THE MARKET.**

In blocks, each sufficient for twenty sheep. Carriage Paid  
and Cases Free on lots of six dozen.

TERMS ON APPLICATION.

**Manufactory—27 KING ST., WHITEHAVEN.**

# DESTRUCTION OF RATS, &c.

# STEINER'S VERMIN PASTE

REGISTERED.



Is used  
in  
England,  
Scotland,  
Ireland & W

Is used in  
South America

Is a Sure and Certain Destroyer of

## RATS, COCKROACHES, MICE, AND BLACKBEETLES

**IT NEVER FAILS!!!**

The great strength of Steiner's Paste is not impaired in hot climates.

Sold in 3d., 6d., and 1s. Glass Jars, and 2s. 6d. Tins.

Wholesale and Export at the

**WORKS, HENRY ST., LIMEHOUSE, LONDON.**

ASK YOUR CHEMIST FOR IT.

Established 1868.

**W.M.  
RADAM'S  
MICROBE  
KILLER.**

**CURES  
ALL  
BLOOD DISEASES.**

**Prevents, Restores,  
and Invigorates.**

**Especially useful in hot  
tropical climates.**

**W. RADAM, MANUFACTURER,  
141 OXFORD STREET,  
LONDON, W.**

**FOR ALL CANINE AILMENTS.**  
**SPRATTS PATENT, LIMITED,**  
**DOG MEDICINES.**

**Pamphlets on Canine Diseases for gratuitous distribution. Show Cards and Handbills Supplied.**

**Address : SPRATTS PATENT, LIMITED, LONDON, S.E.**

SPRATTS PATENT (AMERICA) LIMITED, 239 to 245 East 56th Street, NEW YORK, U.S.A.

**OR YOUR WHOLESALE HOUSE.**

# WALKER, TROKE & CO.

WHOLESALE AND EXPORT DRUGGISTS,  
82 CITY ROAD, LONDON, E.C.

SOLE MAKERS OF

GABRIEL & TROKE'S  
GELATINE  
CAPSULED  
HORSEBALLS.



ELEGANT IN APPEARANCE.  
EASY IN ADMINISTRATION.  
EFFICIENT IN ACTION.

Alterative, Condition, Cordial, Cough, Diuretic, Fever, Physic, and Worm Balls.

QUOTATIONS & SAMPLES FREE ON APPLICATION.

## WILEY'S CHEMICAL ESSENCE

FOR

## LAMENESS IN HORSES.

Agents Wanted in every Town. Handbills, with Name and Address, supplied gratis  
**50 YEARS' UNBROKEN SUCCESS.**

SOLE MAKER & PROPRIETOR, J. ROOKLEDGE, CHEMIST, EASINGWOLD, YORK.  
TO BE HAD OF USUAL WHOLESALE HOUSES.



Used on the Royal Farms at Windsor, Osborne, and Sandringham, and by  
the principal Stockbreeders everywhere for nearly 60 years.



## DAY, SON & HEWITT'S

## HORSE, CATTLE, AND SHEEP MEDICINES.

### THE CHEMICAL EXTRACT.

For assuaging pain and inflammation in all wounds, saddle galls, strains, bruises, swellings, and relaxed tendons in Horses. For painless calving and lambing, and for swollen udders and sore feet.

2s. 6d. per Bottle; 1-dozen Box, 7s. 6d.

### THE RED DRENCH.

Celebrated for inflammatory disorders, such as fevers, pleurisy, foot-and-mouth complaints, yellows, surfeit, and red-water. Also for difficult calving and lambing. Admirably adapted for cleansing and checking feverish symptoms in Cows and Ewes after a bad time of parturition.

For Sheep, 8s. 6d.; for Cattle, 18s. per dozen Box.

### THE GASEOUS FLUID.

Unmatched for colic or gripes and debility in Horses, for colds, chills, shivering fits, flux and diarrhoea in Cattle, Calves, and Sheep. For Ewes weekly after lambing and blown Cattle and Sheep, its effects are marvellous.

20s. per dozen Box.

### THE GASEODYNE.

Used as laudanum in uncontrollable spasmodic pains and violent bowel complaints. Invaluable for parturition in Mares, Cows, and Ewes.

3s. 6d. per Bottle; 1-dozen Box, 10s. 6d.

### THE RED PASTE BALLS and RED POWDERS.

For ill-conditioned Horses and Cattle; invaluable after hard hunting or driving. For coughs, colds, staring coat, itching, swollen legs and want of strength. The powder given in the feed will produce fine appetite and tone.

7s. 6d. per dozen; 8-dozen Box, 21s.

### THE BLACK PHYSIC BALLS.

These Balls are matchless for thoroughly cleansing the system of all impurities, and for assisting in the expulsion of Worms. Their purgative action soon relieves Costiveness of the Bowels, and checks all Feverish Symptoms arising from gross habit.

Price, 8s. per dozen; Box containing 3 dozen, 28s.

### THE BRONCHOLINE.

The great and reliable remedy for Cough or Hoarse in Cattle, Heifers, Calves, and Sheep. Its gaseous odour destroys the worm or parasite in the windpipe, removes the hard cough, and soothes the lungs and other organs.

2s. 6d. per Bottle; 1-dozen Box, 7s. 6d.

### THE "KEY TO FARRIERY."

A small work published by us on the general ailments of stock, their treatment and cure.

Large Edition, in Cloth, 2s. 6d.; Small Edition, 1s.

	Price
The Stockbreeder's Medicine Chest. No. 1 contains a complete assortment of all our preparations for treating diseases of stock generally,	£6 6
The Stockbreeder's Medicine Chest. No. 2 is suitable for ordinary Farm use, and contains a useful selection of the above Medicines	2 18
The Horsekeeper's Medicine Chest. No. 3 is arranged for large Horse Owners, Collieries, &c., and contains 12 specially selected Medicines	5 5
The Horsekeeper's Medicine Chest. No. 4 contains a smaller assortment, but has everything requisite for all ordinary ailments in Horses	2 17

Prepared only by DAY, SON & HEWITT, 22 DORSET STREET, LONDON, W.

LIBERAL DISCOUNT TO FOREIGN BUYERS.

LIST AND PARTICULARS OF AGENTS ON APPLICATION

# **WILSON'S**

## **PATENT**

# **STICKY FLY PAPERS**

Have already been sold in enormous quantities all over the kingdom, and should be stocked by everybody who wishes to be up to date. They are thoroughly good things, and give complete satisfaction to consumer and dealer. They are made in the following forms :—

- (A) A sheet of parchment paper ten inches square, and coated on one side. This is simply doubled up, and is quite clean to handle. **Price 4/ per gross.**
- (B) A strip of similar paper six inches broad and twenty inches long ; it is coated on both sides, and coiled upon a spindle, to which is affixed a contrivance for hanging. **8/ per gross.**
- (C) The same as B, but considerably longer and broader. This may be termed a perpetual fly-eatcher, as one hanging will last a season, a short length being drawn down and cut off when covered with flies, and a further supply brought down, as with an ordinary window blind. **Price 4/6 per doz.**

N.B.—All the above are coated with

## **WILSON'S PATENT STICKY OIL,**

which is the stickiest stuff under the sun, and will not dry up or run and drop.

This STICKY OIL is now put up in Tins of various sizes, to be sold to the public for catching Flies and other Insects. Chemists who are situated in fruit-growing districts will be able to do a good trade all the year round, as it is extensively used in dressing fruit trees for arresting the ascent of winter moths. Gardeners also use it for a variety of similar purposes. Lever-topped tins to sell at **6d., 1/, 2/6,** and **5/** each. Special Brushes at ordinary Wholesale Prices.

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# **WILSON'S PATENT,**

## **ST. HELEN'S, LANC'S.**

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THESE GOODS ARE WELL WORTH THE ATTENTION OF SHIPPERS.

# THE CARBOLIC SMOKE BALL

WILL POSITIVELY CURE.

**COLDS**

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For Inhalation only.



For Inhalation only.

*As all the Diseases mentioned herein proceed from one cause, they can, therefore, be cured by one remedy—namely, the CARBOLIC SMOKE BALL.*

The **Carbolic Smoke Ball** will not only cure all diseases caused by taking cold, but will, if used in time, positively ward off colds.

One **Carbolic Smoke Ball** will last a family several months, making it the cheapest remedy in the world at the price—**10/-**, post free.

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IN THE HEAD**  
Cured in twelve hours.

**COLD  
ON THE CHEST**  
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Cured in three months.

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Cured in every case;  
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Fully restored.

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Cured in two days.

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A cure guaranteed.

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DEAFNESS**  
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Cured in twelve hours.

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Cured by inhaling at  
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(ABBREVIATED).

Jeyes' Fluid.		Trade Prices.
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0 6 .. Sixpenny Bottles } (bottles included) ..		4 0 per doz.
1 0 .. Shilling ..		7 0 ..
3 6 .. ½ gall. Iron Drums (drums included) ..		2 6 each
6 0 .. 1-gall. Drums ..		4 6 ..
11 6 .. 2-gall. ..		8 6 ..
23 6 .. 5-gall. ..		20 0 ..
55 0 .. 10-gall. ..		38 6 ..
Per gall.		
5 0 .. 20 and 40 gall. Casks (casks free, not returnable)		3 6 per gall.
1 1½ .. UNIVERSAL PERFECT PORRINGER (in bottles) ..		8 6 per doz.

### Sanitary Powder.

1 0 each Canisters, in boxes of 1, 2, or 3 doz. ..	8 6 per doz.
0 6 .. " " (Also in Casks and Bags.) ..	4 0 ..

### Disinfectant (Brown) Soap or Household (White) Soap.

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31 6 .. In 1-cwt. Boxes ..	28 0 per cwt.
(Also in Small Packages.)	

No. 2 QUALITY.		Trade Prices.
Retail Prices.		s. d.
25 6 .. In 1-cwt. Boxes ..		22 0 per cwt.
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Elegant Tablets for the Toilet, of finest quality, containing the Antiseptic Properties of the Fluid.

Per box.	
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2 0 .. Old Brown Windsor, in Boxes of 12 Tablets ..	1 6 ..
2 6 .. Toilet (Scented), in Boxes containing 6 Tablets ..	1 9 ..
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3 0 .. Sublime Toilet (Scented) ..	2 0 ..
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5 0 .. Transparent, Complexion, in Boxes of 12 Tablets ..	3 0 ..

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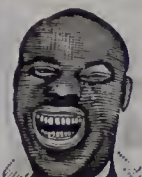
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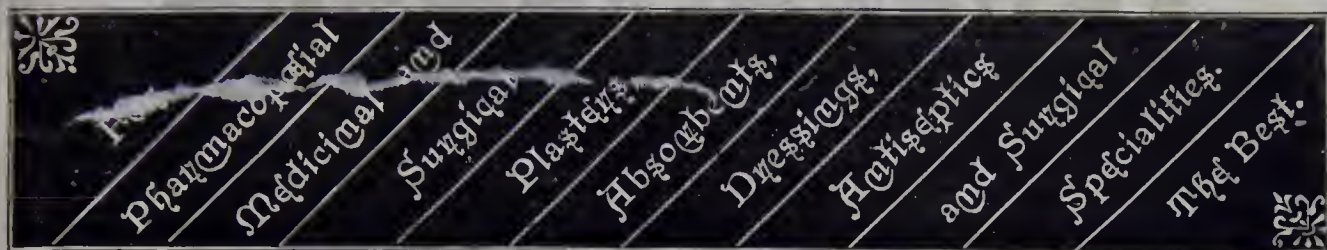
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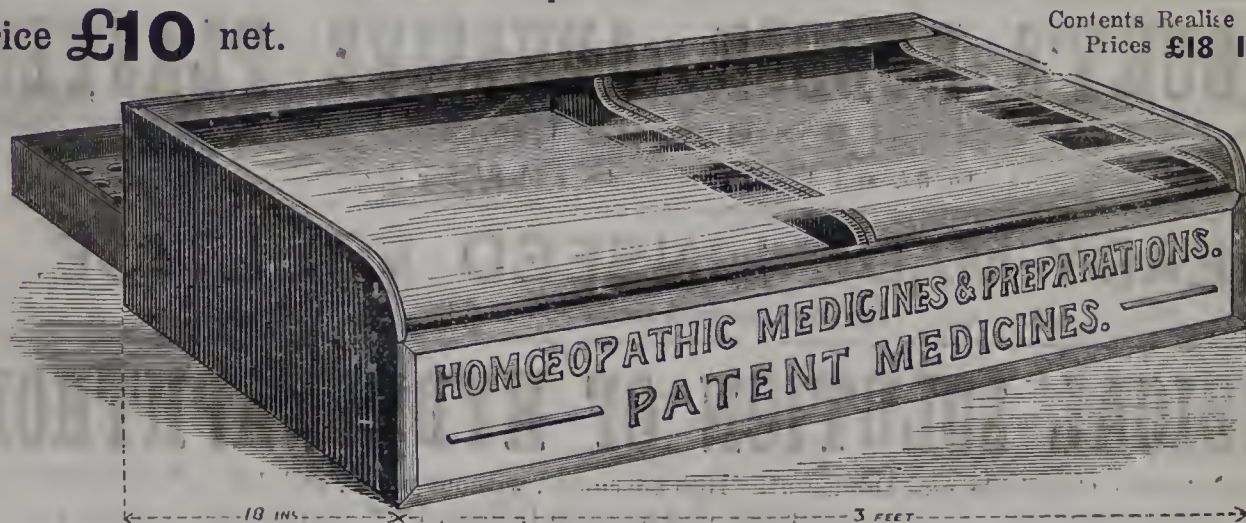
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